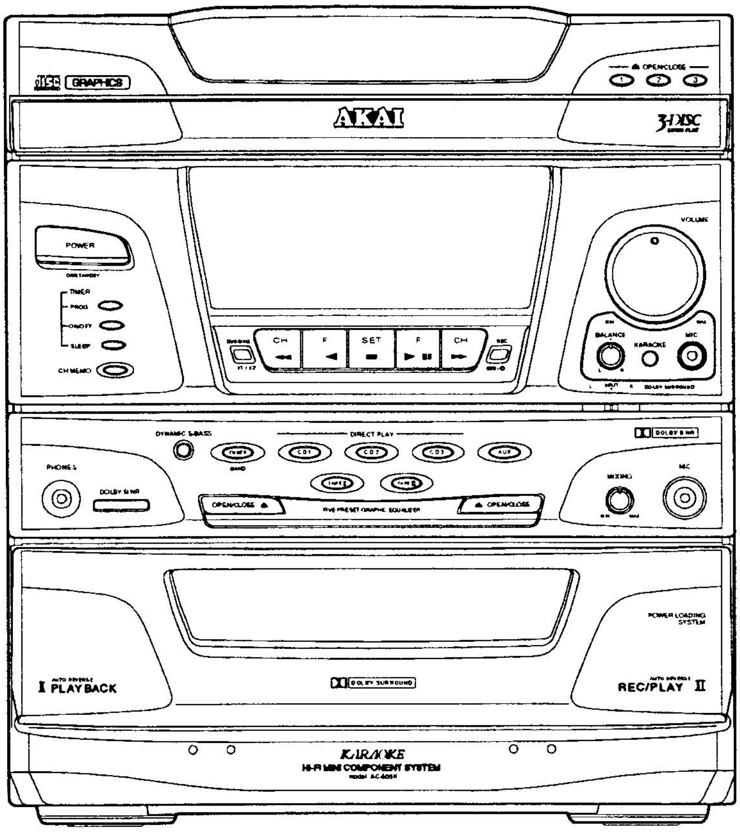
AKAI SERVICE MANUAL


GRAPHICS
OPEN/CLOSE
1
2
3
AKAI
3-DISC
POWER
TIMER
PROG
ON/OFF
SLEEP
CH MEMO
CH
F
SET
F
CH
VOLUME
BALANCE
KARAOKE
MIC
DOLBY SURROUND
DYNAMIC S-BASS
DIRECT PLAY
DOLBY B NR
PHONES
DOLBY B NR
OPEN/CLOSE
FIVE PRESET GRAPHIC EQUALIZER
OPEN/CLOSE
MIXING
MIC
POWER LOADING SYSTEM
AUTO REVERSE
I PLAY BACK
DOLBY SURROUND
AUTO REVERSE
REC/PLAY II
KARAOKE
HI-FI MINI COMPONENT SYSTEM
MODEL AC-605K

MODEL AC-605K

COMPACT disc DIGITAL AUDIO

DOLBY B NR

DOLBY SURROUND

MINI STEREO COMPONENT SYSTEM

SYSTEM TX-500/503R/505K

MODEL AC-500/503R/505K & SR-500

SYSTEM TX-600/603R/605K

MODEL AC-600/603R/605K & SR-600

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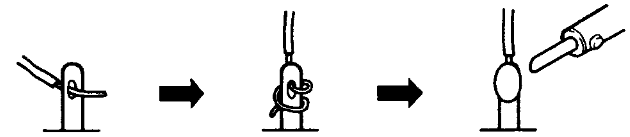
★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with the specified replacements.
   Examples : RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially :
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit. The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

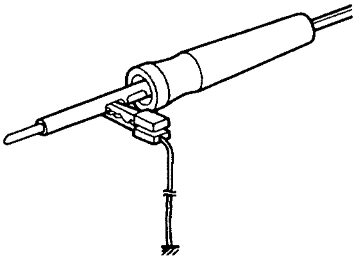
MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot.

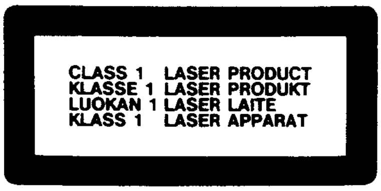
PRECAUTIONS IN REPAIRING

When repairing or adjusing the unit, please note the following points.

1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
2. When the base is removed for repair or adjustment, make sure that there are no metal obiects in the narrow gap between the P.C. board or the mecha parts and the base.
3. The Micro-Computer and the CD signal processing ICs can be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.

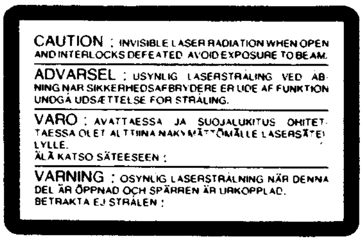


4. Do not loosen any screws in the pick-up block.
   When handling the pick-up block, please refer to the points to NOTE when replacing the pick up block.
5. To avoid hazardous invisible Laser Radiation, DO NOT look at the Laser Beam (Objective lens) directly.
6. On models for some countries, laser warning labels are affixed on the unit and inside of the unit, as shown below. For your safety, read these labels carefully when repairing or adjusting the unit.



CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

Label affixed on the rear panel of the unit.



CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM.

ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARO : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.
ÄLÄ KATSO SÄTEESEEN :

VARNING : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD.
BETRAKTA EJ STRÅLEN :

Label affixed on the left side of the CD PLAYER BLOCK of the unit.

★ INFORMATIONS

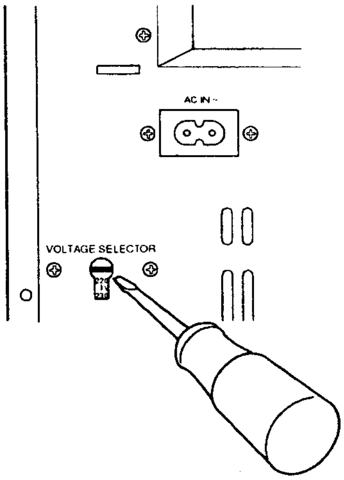
SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations
A	U.S.A
B	U.K.
C	Canada
E	Europe (except U.K.)
J	Japan
S	Australia
V	Germany
U	UniversalArea
Y*	Custom version

VOLTAGE CONVERSION
(U5,U8 and Y7 version models only)

Before connecting the power cord, set the VOLTAGE SELECTOR, located on the rear panel of the unit, so that the correct voltage for your area is indicated.



TEST MODE

Various kinds of test modes are installed in this unit's micro-computer in order to test them on the production line. Following test modes among the various test modes can be used for adjustment, operation check or maintenance. To terminate the test mode, simply press the "POWER ON/ STANDBY" button or disconnect the AC power cord from the AC outlet.

1. DECK TEST MODE

This test mode can be used for tape speed adjustment as well as bias oscillator frequency adjustment in the TAPE DECK section.

While pressing and holding the "TAPE II" and "■" (stop) buttons, connect the AC power cord to the AC inlet of this unit. The function turns to "TAPE I" and "DUBX1" as well as "I ►", "II ►" tape direction indicators on the FLD light when this mode is engaged.

Corresponding further information is shown on page 21.

2. DECK CLEANING MODE

This test mode can be used for cleaning the TAPE DECK mechanism.

Because, this mode enables engaging of the playback, fast forward (FF), and rewind (RWD) modes without a cassette tape, it makes the cleaning (such as the capstan shaft, magnetic head, pinch roller etc.,) easier.

(further more, the cassette lid remains open even if the playback or FF, RWD mode is engaged on the AC-600 series models).

While pressing and holding the "TAPE I" and "■" (stop) buttons, connect the AC power cord to the AC inlet of this unit. The "TAPE I","I ►", "II ►" tape direction indicators on the FLD light when this mode is engaged. (Further more, the cassette lid will open automatically on the AC-600 series models.)

3. CD TEST MODE

This mode can be used for the operation check (step by step) or adjustment of the CD PLAYER section. Corresponding further information is shown on page 22.

While pressing and holding the "CD 1" and "■" (stop) buttons, connect the AC power cord to the AC inlet of this unit. The "TEST" indicator on the FLD will light. Only the "1" ≜ OPEN/CLOSE button can be used for loading the DISC in this mode, so the disc must be set on the "DISC 1" tray.

★ SPECIFICATIONS

[Tuner section]

FM

RDS function (AC-503R/603R only)	PS/CT/AF/PTY/TP
Tuning frequency range	87.5 to 108 MHz
Usable sensitivity (E,B)	17.2 dBf (IHF, 3 % THD)
Usable sensitivity (S,U5,U8,Y6,Y7)	13.2 dBf (IHF, 3 % THD)
Quieting sensitivity MONO (E,B)	21.2 dBf
Quieting sensitivity MONO (S,U5,U8,Y6,Y7)	17.2 dBf
Quieting sensitivity STEREO (E,B)	35.2 dBf
Quieting sensitivity STEREO (S,U5,U8,Y6,Y7)	31.2 dBf
S/N ratio (IHF) MONO	75 dB
S/N ratio (IHF) STEREO	65 dB
Frequency response	30 Hz to 15 kHz ± 1 dB
Total harmonic distortion MONO	0.3 % (at 1 kHz)
Total harmonic distortion STEREO	0.7 % (at 1 kHz)
Selectivity	70 dB (±400 kHz)
Image rejection	40 dB
Stereo separation	40 dB (at 1 kHz)
Capture ratio	2 dBf
AM suppression	60 dB
Spurious rejection	80 dB
IF rejection (B,E)	70 dB
IF rejection (S,U5,U8,Y6,Y7)	90 dB

MW

Tuning frequency range (B,E,S and Y7)	531 to 1602 kHz (9 kHz step)
Tuning frequency range (U5,U8 and Y6)	531 to 1602 kHz (9 kHz step) or 530 to 1710 kHz (10 kHz step) selectable
Usable sensitivity	500 µVm
S/N ratio	40 dB
Selectivity	25 dB
Image rejection	35 dB
IF rejection	60 dB

LW (except AC-505K/605K & AC-500/600 Y7 version)

Tuning frequency range (AC-500/600 B,E)	144 to 288 kHz (5 kHz step)
Tuning frequency range (AC-503R/603R E)	144 to 288 kHz (1 kHz step)
Usable sensitivity	800 µVm
S/N ratio	30 dB
Selectivity	30 dB
Image rejection	35 dB
IF rejection	60 dB

SW (AC-505K/605K Y7 version only)

Tuning frequency range	3.8 to 12.5 MHz (5 kHz step)
Usable sensitivity	800 µVm
S/N ratio	30 dB
Selectivity	25 dB
Image rejection	15 dB
IF rejection	60 dB

[CD section]

Type	3 discs auto changer
Pick up system	3 beam laser pick-up
Sampling frequency	44.1 kHz
Error correction system	Cross interleave reed solomon
Frequency response	20 to 20,000 Hz ±1 dB
S/N ratio	83 dB (A-weight)
Dynamic range	82 dB
Wow & flutter	Less than measurable limits
Total harmonic distortion	0.04 % (at 1 kHz)
Channel separation	72 dB (at 1 kHz)
CD-G video signal	PAL/NTSC (AC-605K only)

[DECK section]

Track system	4 track 2 channel system
Wow & Flutter	0.09 % (WRMS), 0.15 % (DIN)
Frequency response Normal	40 Hz to 15 kHz ± 3 dB
Frequency response CrO2	40 Hz to 16 kHz ± 3 dB
S/N ratio Dolby B	63 dB (5 kHz)
S/N ratio Dolby off	53 dB (CrO2 tape)
Total harmonic distortion	Less than 0.5 % (normal tape, at 315 Hz)
Channel separation	43 dB (normal tape)

[Amplifier section]

Power output AC-500/503R/505K	35 W + 35 W (6 ohms, 1 kHz, 10 % THD, EIAJ) 30 W + 30 W (6 ohms, 1 kHz, 1 % THD, DIN)
Power output AC-600/603R/605K 2 channel drive	38 W + 38 W (6 ohms, 1 kHz, 10 % THD, EIAJ) 30 W + 30 W (6 ohms, 1 kHz, 1 % THD, DIN)
Power output AC-600/603R/605K 3 channel drive (Dolby surround ON)	35 W + 35 W (8 ohms) & 15 W (8+8 ohms) (1 kHz, 10 % THD, EIAJ) 28 W + 28 W (6 ohms) & 13 W (8+8 ohms) (1 kHz, 1.0 % THD, DIN)
Music power output AC-500/503R/505K	370 W (L / R total)
Music power output AC-600/603R/605K	440 W (L / R total)
Peak music power output AC-500/503R/505K	520 W (L / R total)
Peak music power output AC-600/603R/605K	610 W (L / R total)
Frequency response	10 Hz to 100 kHz (10 Hz : –4 dB, 100 kHz : –3 dB)
Required speaker impedance Front speaker	6 to 16 ohms
Required speaker impedance Surround speaker	8 to 16 ohms
Input sensitivity AUX	350 mV/47 k ohms
S/N ratio	85 dB (A-weight)
Residual noise	0.8 mV (A-weight)
Channel separation	63 dB
Super bass effects	0 to 10 dB/70 Hz

[General]

Power requirements (B,E)	AC 220 V to 230 V, 50 Hz
Power requirements (S)	AC 240 V, 50 Hz
Power requirements (U5,U8,Y6,Y7)	AC 110/127/220 to 230/240 V, 50/60 Hz
Power consumption	100 W (IEC65)
Dimensions	270 (W) x 307 (H) x 343 (D) mm
Weight AC-500/503R/505K	7.5 kg
Weight AC-600/603R/605K	8.0 kg

Standard accessories

Remote control unit	x 1
Batteries (UM-3)	x 2
Operator's manual	x 1
FM wire antenna	x 1
AM loop antenna	x 1
Antenna Plug adapter	x 1
AC plug adapter	x 1 (U5,U8 and Y7 virsion only)

※ For improvement purposes, specifications and design are subject to change without notice.

※ Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the DD symbol are trademarks of Dolby Laboratories Licensing Corporation.

	SR-500	SR-600
[SPEAKER section]		
System constructions	3-Way, 3 speakers	3-Way, 3 speakers
Woofer unit	135 mm P.cote cone type	135 mm cone type
Midrange unit	57 mm cone type	57 mm cone type
Tweeter unit	20 mm cone type	40 mm cone type
System impedance	6 ohms	6 ohms
Maximum power input	50 W	55 W
Sensitivity	87 dB /Wb/m	87 dB /Wb/m
Frequency range	55 Hz to 20 kHz	50 Hz to 20 kHz
Harmonic distortion	Less than 3 %	Less than 3 %
Enclosure type	Bass reflex type	Front bass reflex
Units layout	L/R mirror layout	L/R mirror layout
Front grille	Detachable grille (cloth)	Detachable grille (cloth)
Dimensions (with grille)	180 (W) x 305 (H) x 290 (D)	204 (W) x 305 (H) x 290 (D)
Net weight	3.4 kg/pc	4.0 kg/pc
Magnetically shield	Non	Yes
Enclosure finish	Black P.V.C.	Black P.V.C.

※ For improvement purposes, specifications and design are subject to change without notice.

II. PRINCIPAL PARTS LOCATION

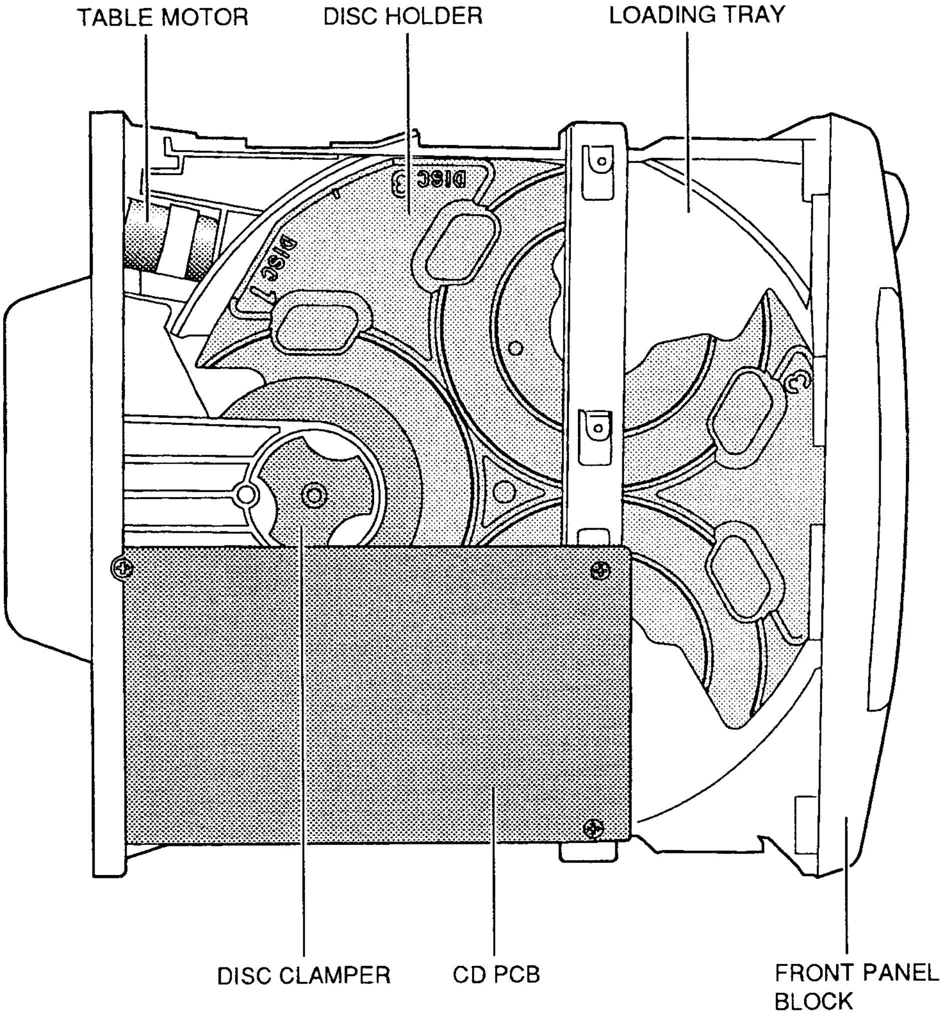


TABLE MOTOR
DISC HOLDER
LOADING TRAY
DISC 3
DISC 1
3
DISC CLAMPER
CD PCB
FRONT PANEL BLOCK

Fig. 2-1 Top view

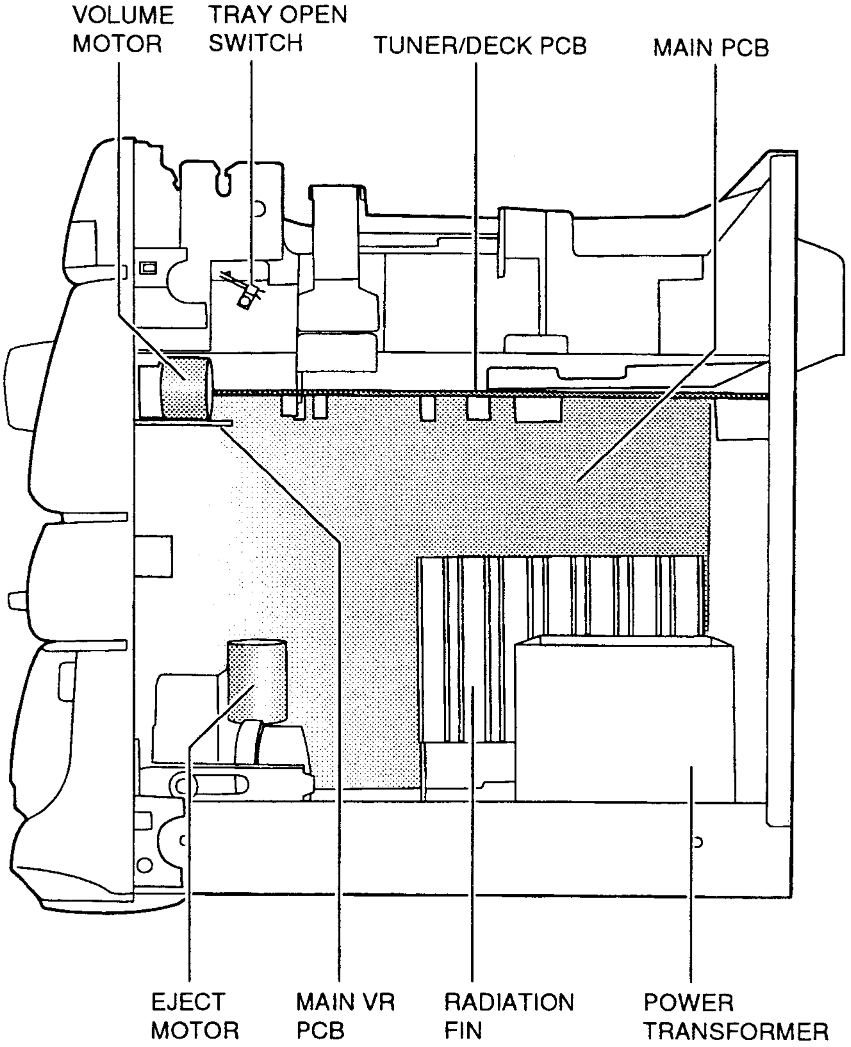

VOLUME MOTOR
TRAY OPEN SWITCH
TUNER/DECK PCB
MAIN PCB
EJECT MOTOR
MAIN VR PCB
RADIATION FIN
POWER TRANSFORMER

Fig. 2-2 Side view

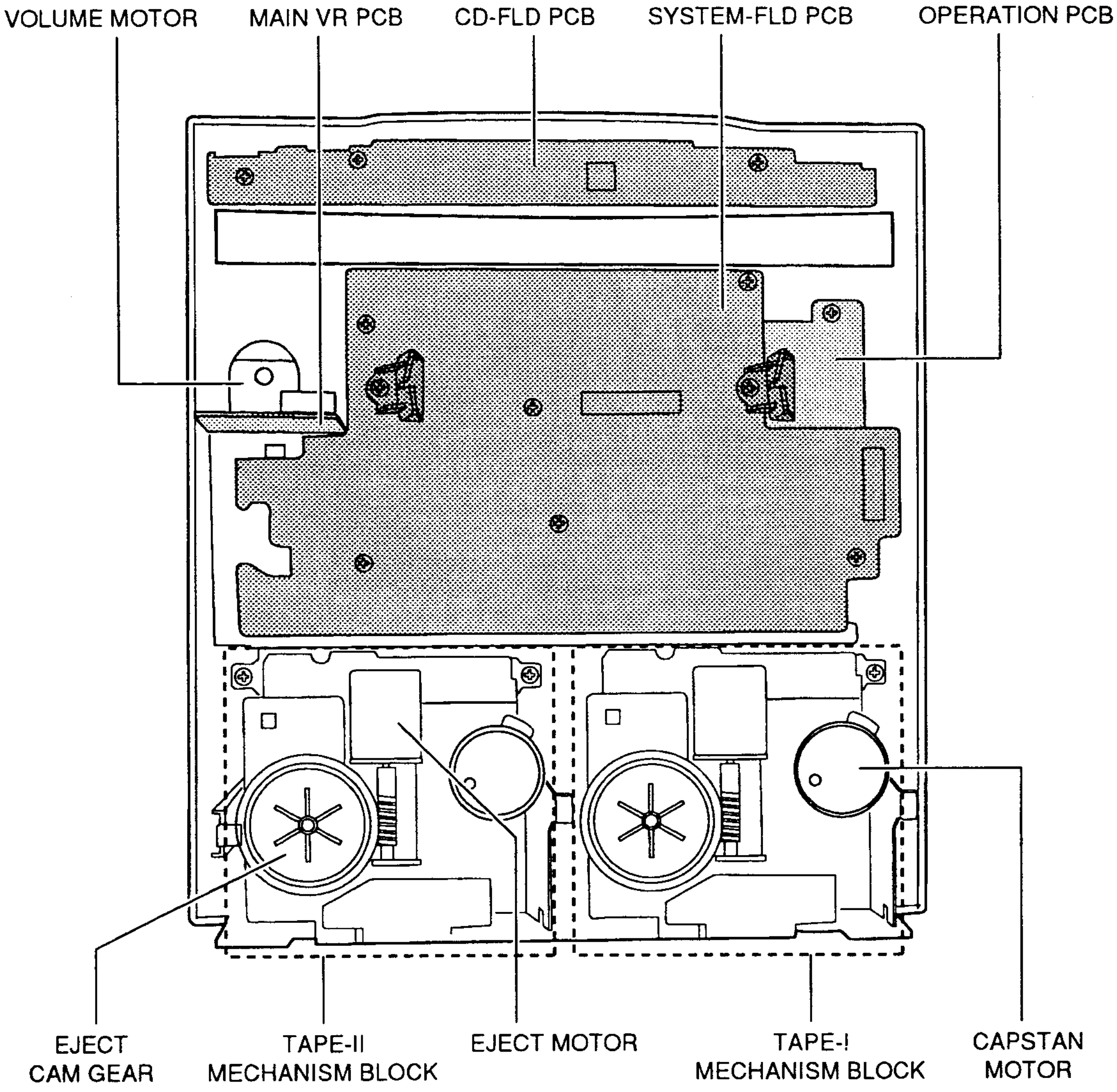

VOLUME MOTOR
MAIN VR PCB
CD-FLD PCB
SYSTEM-FLD PCB
OPERATION PCB
EJECT CAM GEAR
TAPE-II MECHANISM BLOCK
EJECT MOTOR
TAPE-I MECHANISM BLOCK
CAPSTAN MOTOR

Fig. 2-3 FRONT PANEL (reverse side)

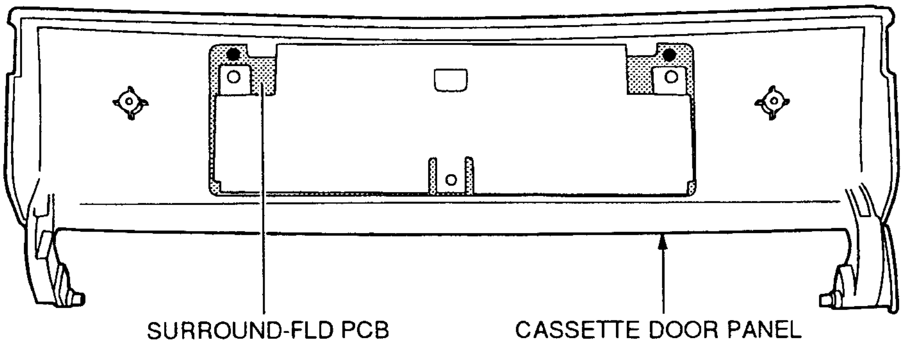

SURROUND-FLD PCB
CASSETTE DOOR PANEL

Fig. 2-4 CASSETTE DOOR (AC-600 series only)

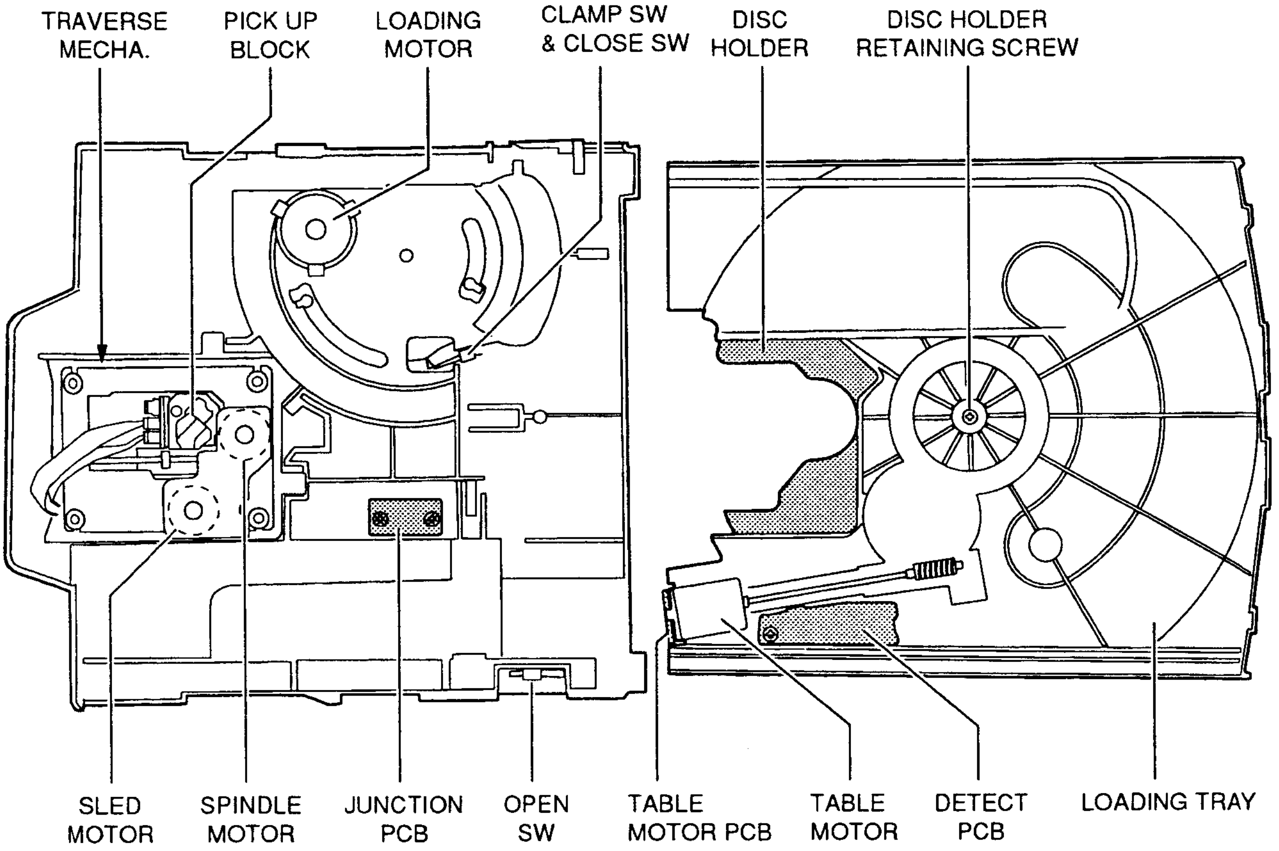

TRAVERSE MECHA.
PICK UP BLOCK
LOADING MOTOR
CLAMP SW & CLOSE SW
DISC HOLDER
DISC HOLDER RETAINING SCREW
SLED MOTOR
SPINDLE MOTOR
JUNCTION PCB
OPEN SW
TABLE MOTOR PCB
TABLE MOTOR
DETECT PCB
LOADING TRAY

Fig. 2-5 CD PLAYER BLOCK

III. DISASSEMBLY OF THE MAIN COMPONENTS

3-1. CD PLAYER BLOCK

* Remove the CD PLAYER BLOCK before proceeding (refer to section 1-3).

3-1-1. Removal of the TRAVERSE MECHA.

1) Remove the TRAVERSE COVER by releasing the two tabs in the direction of the arrow as shown in Fig. 3-1.

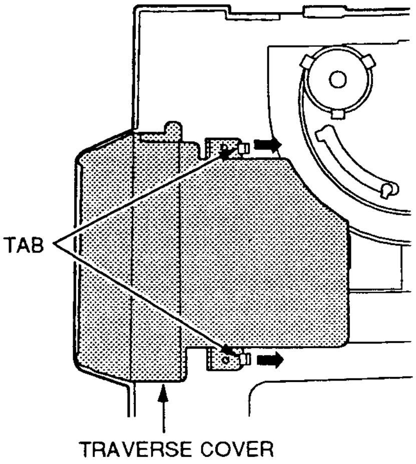

TAB
TRAVERSE COVER

Fig. 3-1

2) Short the circuit on the PICK UP BLOCK with solder as shown in Fig. 3-2.

Note : To protect the laser diode from damage caused by high voltage static electricity, a part of the PCB on the PICK UP BLOCK has to be shorted before disconnecting the connectors. After replacement, be sure to connect the two connectors and then remove the solder of the shorted circuit before turning the power ON.

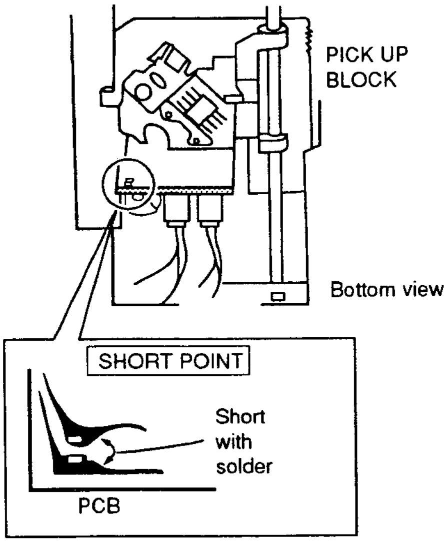

PICK UP
BLOCK
Bottom view
SHORT POINT
Short
with
solder
PCB

Fig. 3-2

3) Disconnect the three connectors carefully (two connectors are on the PICK UP's PCB and the other is on the MOTOR PCB of the TRAVERSE MECHA.).

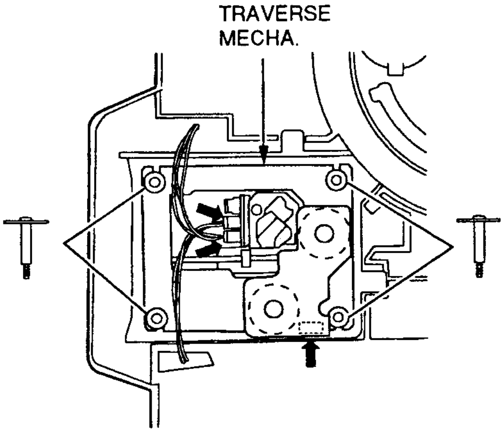

TRAVERSE
MECHA.

Fig. 3-3

4) Remove the four retaining screws, then remove the TRAVERSE MECHA.
5) Proceed in the reverse order for installation but never unsolder the shorted circuit before connecting the three connectors.

3-1-2. Replacement of the SLED MOTOR

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).
2) Unsolder the leads of the SLED and SPINDLE MOTORs then remove the MOTOR PCB.

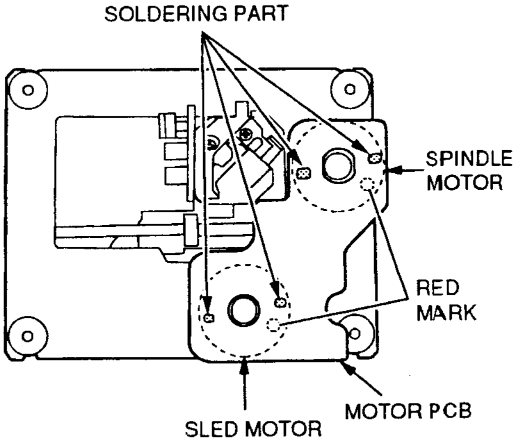

SOLDERING PART
SPINDLE
MOTOR
RED
MARK
SLED MOTOR
MOTOR PCB

Fig. 3-4

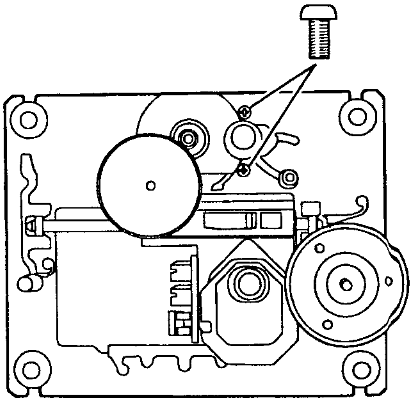


Fig. 3-5

3) Remove the two retaining screws, then remove the SLED MOTOR.
Next, extract the plastic gear from the motor shaft and attach it onto the new motor's shaft.
4) Reassemble in the reverse order.

About the SPINDLE MOTOR:
Replacement of the SPINDLE MOTOR itself is not recommended, because adjustment of the TURN TABLE height is quite critical and requires the use of a special jig.

3-1-3. Replacement of the PICK UP BLOCK

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).
2) While pressing the Ⓐ stopper upwards, pull the SLIDE SHAFT to the right to remove the PICK UP BLOCK, then replace the PICK UP BLOCK.

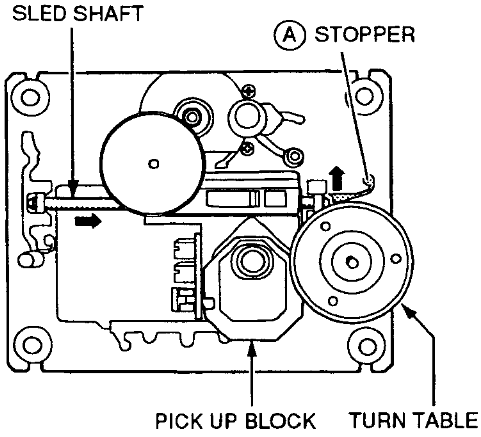


Fig. 3-6

3) Reassemble in the reverse order.

3-1-4. Replacement of the LOADING MOTOR

1) Slide the protruding part of the GEAR HOLDER PART in the direction of the arrow, then pull out the TRAY BLOCK.

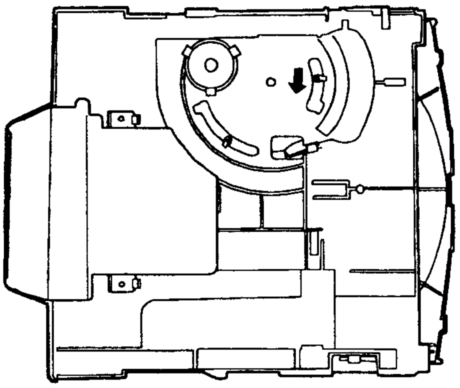


Fig. 3-7

2) Unhook the LOADING BELT with tweezers.

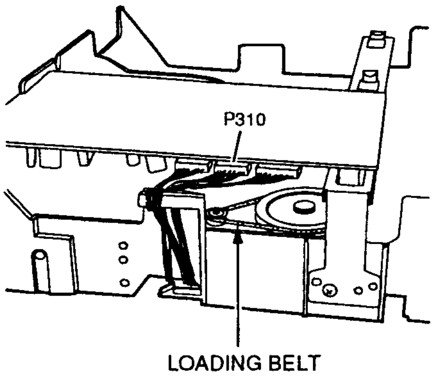


Fig. 3-8

3) Unsolder the lead wires of the LOADING MOTOR with a soldering iron.
4) While releasing the LOADING MOTOR's three retaining hooks, push the motor pully part down with your middle finger to remove the LOADING MOTOR, then replace it.

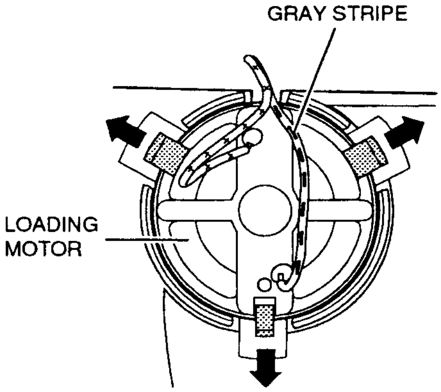


Fig. 3-9

5) Reassemble in the reverse order. Make sure that the wire with the gray stripe is connected to the motor's O marked terminal when soldering.

3-1-5. Removal of the TRAY BLOCK

1) If the TRAY BLOCK is in the "in" position, slide the protruding part of the GEAR HOLDER PART in the direction of the arrow and pull out the TRAY BLOCK slowly (refer to Fig. 3-7).
2) Disconnect the P310 connector on the CD PCB as shown in Fig. 3-8 then unthread its cable on the TRAY BLOCK.
3) In order to disengage the two stoppers, carefully press the Ⓐ part of the TRAY BLOCK downwards while pulling the TRAY BLOCK out as shown in Fig. 3-10.

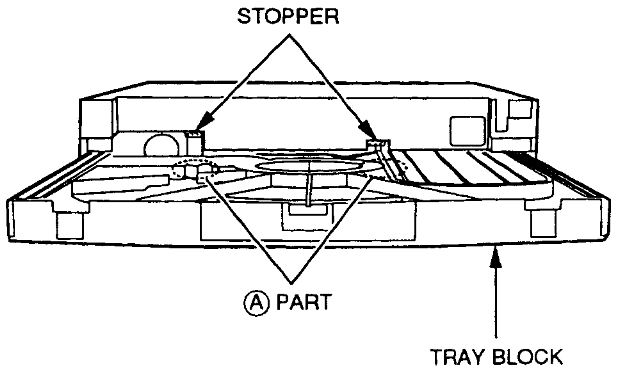

STOPPER
Ⓐ PART
TRAY BLOCK

Fig. 3-10

4) Remove the TRAY BLOCK by pulling it out carefully.
5) Reassemble in the reverse order for installation. When reattaching the TRAY BLOCK to the chassis, carefully align the guides on both sides of the TRAY BLOCK with their corresponding rails on the chassis. Also, make sure that any one of the reference marks on the DISC HOLDER aligns with the reference mark on the LOADING TRAY.

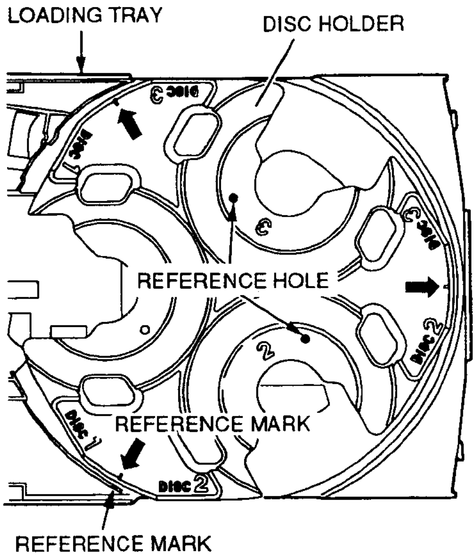

LOADING TRAY
DISC HOLDER
REFERENCE HOLE
REFERENCE MARK
DISC 2
REFERENCE MARK

Fig. 3-11

Next, move the head of the GEAR HOLDER PART in the direction of the arrow before engaging the stoppers as shown in Fig. 3-12.

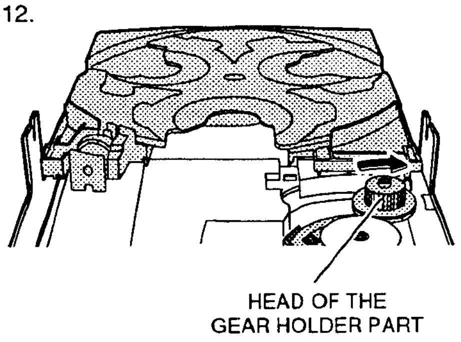

HEAD OF THE
GEAR HOLDER PART

Fig. 3-12

3-1-6. Replacement of the TABLE MOTOR

1) Remove the TRAY BLOCK (refer to section 3-1-5).
2) Remove the DISC HOLDER retaining screw then remove the DISC HOLDER.

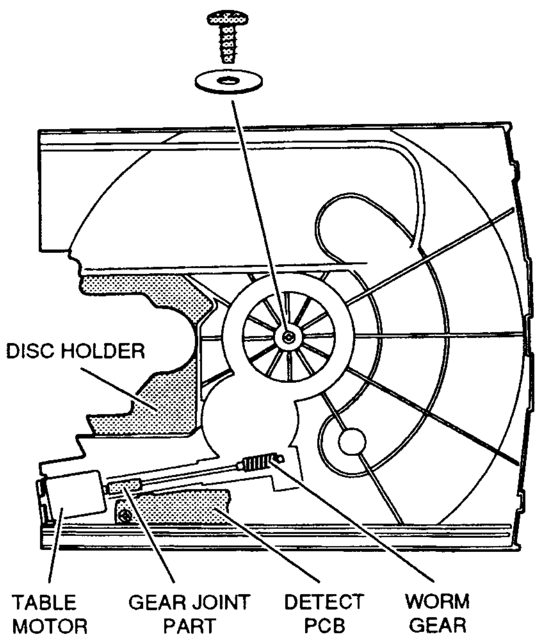

DISC HOLDER
TABLE MOTOR
GEAR JOINT PART
DETECT PCB
WORM GEAR

Fig. 3-13

3) Unsolder the leads of the TABLE MOTOR and remove the TABLE MOTOR PCB.

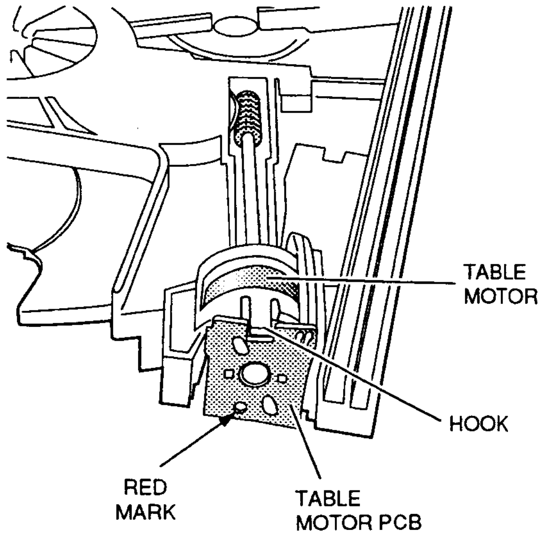


TABLE MOTOR
HOOK
RED MARK
TABLE MOTOR PCB

Fig. 3-14

4) Remove the TABLE MOTOR by pulling it out while opening the TABLE MOTOR retaining hook. Next, remove the WORM GEAR BLOCK by pulling the GEAR JOINT PART out and attach it to the new motor as shown in Fig. 3-13.
5) Reassemble in the reverse order.
   - When soldering the TABLE MOTOR PCB on the TABLE MOTOR, the TABLE MOTOR's red mark must be visible through the hole on the TABLE MOTOR PCB.
   - When attaching the DISC HOLDER on the LOADING TRAY, make sure to place the DISC HOLDER so that any one of the three reference marks aligns with the reference mark on the LOADING TRAY (any two reference holes on the DISC HOLDER align with the corresponding reference holes on the LOADING TRAY accordingly). (Refer to Fig. 3-11)

3-2. TAPE-I & TAPE-II MECHANISM BLOCK

* If CASSETTE MECHANISM BLOCK removal is intended, press both the "EJECT" buttons on the FRONT PANEL to open the CASSETTE HOLDERs and CASSETTE DOOR before proceeding (AC-600/603R/605K only).

3-2-1. Removal of the MECHANISM BLOCK

[For AC-500/503R/505K models]

1) Remove the FRONT PANEL BLOCK (refer to section 1-2 on page 7).
2) Remove the four screws for each of the TAPE-I and TAPE-II MECHANISM BLOCKs then remove the MECHANISM BLOCKs from the FRONT PANEL BLOCK.

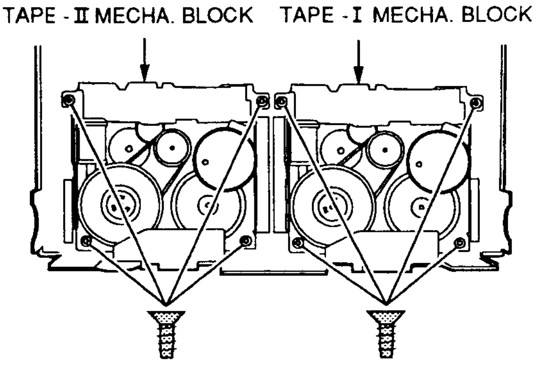

TAPE - II MECHA. BLOCK
TAPE - I MECHA. BLOCK

Fig. 3-15

[For AC-600/603R/605K models]

1) Remove the FRONT PANEL BLOCK (refer to section 1-2 on page 7).
2) Unhook the DOOR SPRING on the TAPE-I MECHANISM BLOCK.

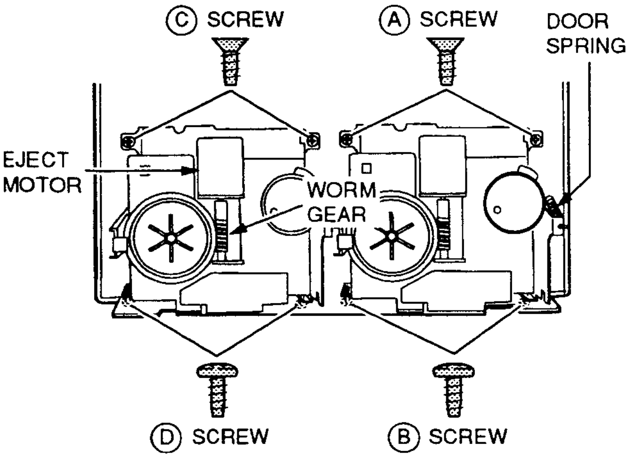

Ⓒ SCREW
Ⓐ SCREW
DOOR SPRING
EJECT MOTOR
WORM GEAR
Ⓓ SCREW
Ⓑ SCREW

Fig. 3-16

3) Remove the two Ⓐ screws and two Ⓑ screws (on the bottom) for removal of the TAPE-I MECHANISM BLOCK from the FRONT PANEL BLOCK. If the cassette holder is closed at this point, turn the EJECT MOTOR's WORM GEAR manually to open it
4) Remove the two Ⓒ screws and two Ⓓ screws (on the bottom) for removal of the TAPE-II MECHANISM BLOCK.

3-2-2. Replacement of the EJECT MOTOR (AC-600/603R/605K only)

1) Remove the Ⓐ graduated screw and remove the EJECT ARM and the EJECT TORSION SPRING as shown in Fig. 3-17.

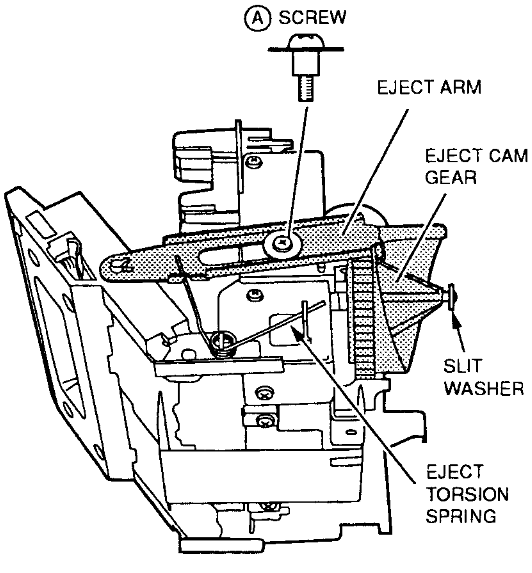

Ⓐ SCREW
EJECT ARM
EJECT CAM GEAR
SLIT WASHER
EJECT TORSION SPRING

Fig. 3-17

2) Remove the slit washer and remove the EJECT CAM GEAR.
3) Unsolder the two lead wires and remove the two retaining screws then remove the EJECT MOTOR and extract the WORM GEAR.

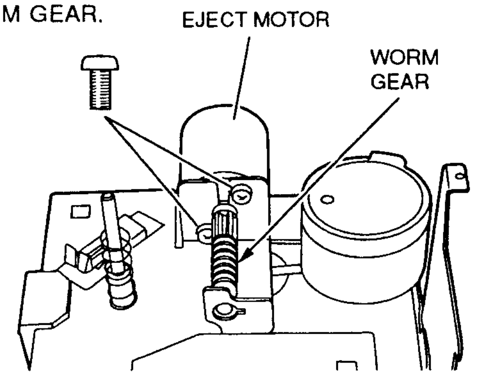

EJECT MOTOR
WORM GEAR

Fig. 3-18

4) Attach the WORM GEAR onto the new EJECT MOTOR's shaft and install it.
5) Reassemble in the reverse order for installation. Make sure that the wire with small red dotted line is connected to the motor's red marked terminal when soldering.

3-2-3. Replacement of the CAPSTAN MOTOR

NOTE : After replacement, tape speed adjustment must be performed.

[For AC-500/503R/505K models]

1) Unsolder the flat cable on the CAPSTAN MOTOR with a soldering iron.
2) While pressing the INTER-LOCK LEVER in the direction of the arrow, remove the two Ⓑ screws and then remove the CAPSTAN MOTOR.

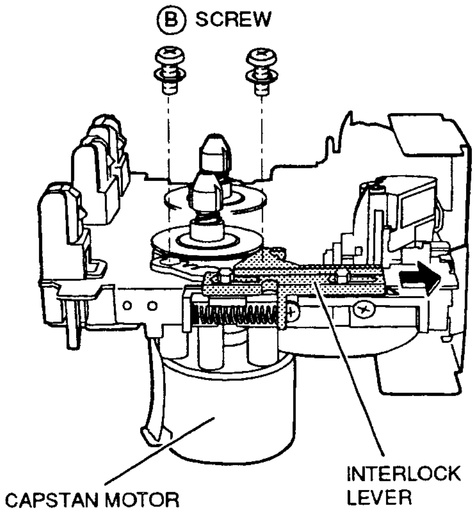


Fig. 3-19

NOTE : Only the TAPE-II MECHANISM BLOCK has the INTER-LOCK LEVER on the left side of the mechanism.

3) Install a new motor and re-assemble in the reverse order for installation.

[For AC-600/603R/605K models]

1) Unsolder the flat cable on the CAPSTAN MOTOR with a soldering iron.
2) Remove the Ⓐ graduated screw and remove the EJECT ARM and the EJECT TORSION SPRING as shown in Fig. 3-20)

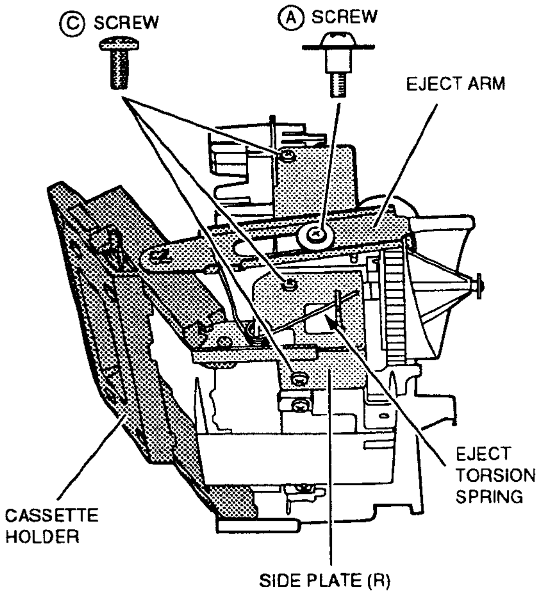


Fig. 3-20

3) Remove the three Ⓒ screws and remove the SIDE PLATE (R).
4) Remove the CASSETTE HOLDER.
5) Remove the two Ⓑ screws then remove the CAPSTAN MOTOR.

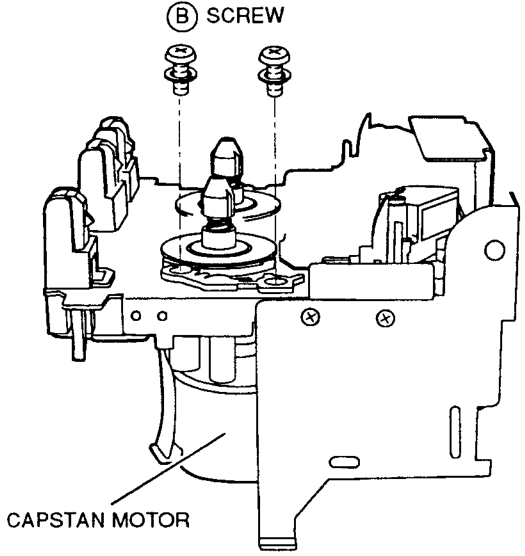


Fig. 3-21

6) Install a new motor and re-assemble in the reverse order for installation.

3-2-4. Replacement of the FR BELT

1) Remove the Ⓐ graduated screw and remove the EJECT ARM and the EJECT TORSION SPRING as shown in Fig. 3-20)
2) Remove the three Ⓒ screws then remove the SIDE PLATE (R) and CASSETTE HOLDER shown in Fig. 3-20.
3) Unthread the MAIN BELT and replace the FR BELT as shown in Fig. 3-22.
4) Proceed in the reverse order for installation.

NOTE : steps 1) and 2) are for AC-600/603R/605K models only.

3-2-5. Replacement of the MAIN BELT

1) Remove the CAPSTAN MOTOR (refer to section 3-2-3, step 2) to 5) for AC-600 series models).
2) Replace the MAIN BELT and re-assemble in the reverse order for installation.

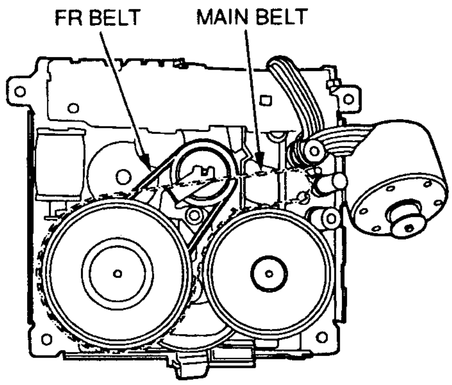


Fig. 3-22

3) After replacement, check the tape speed and if the result is not satisfactory, tape speed adjustment must be performed.

3-2-6. Replacement of the PINCH ROLLER BLOCK

1) Extract the PINCH ROLLER BLOCK upwards while releasing the pinch roller retaining hook in the direction of the arrow.

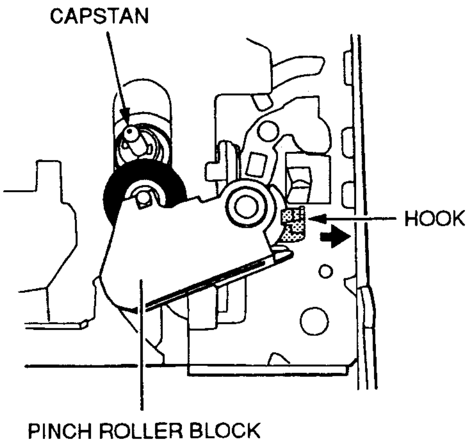

CAPSTAN
HOOK
PINCH ROLLER BLOCK

Fig. 3-23

2) Replace the PINCH ROLLER BLOCK and re-assemble in the reverse order. Attach the spring in the correct position when placing the PINCH ROLLER BLOCK.

3-2-7. Replacement of the PB HEAD OR REC/PB HEAD

1) Remove the two Ⓐ screws and remove the HEAD SHIELD PLATE as shown in Fig. 3-24.

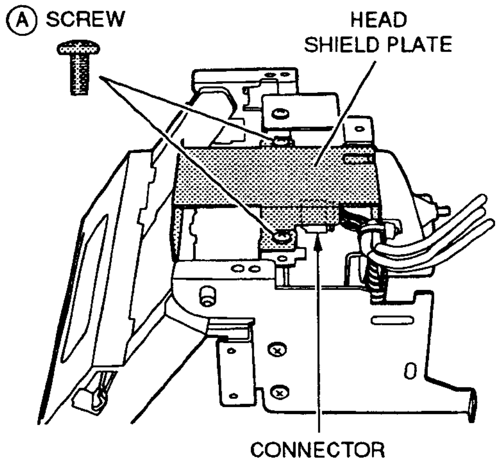

Ⓐ SCREW
HEAD
SHIELD PLATE
CONNECTOR

Fig. 3-24

2) Disconnect the connector on the CONNECTOR PCB and remove the PCB retaining screw.

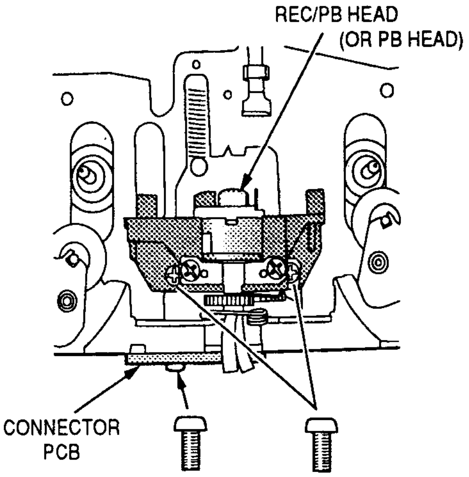

REC/PB HEAD
(OR PB HEAD)
CONNECTOR
PCB

Fig. 3-25

3) Remove the two head retaining screws and remove the HEAD BLOCK.
4) Reassemble in the reverse order. After replacement, demagnetize the HEAD then perform head azimuth adjustment.

3-3. FRONT PANEL BLOCK

3-3-1. Removal of the FRONT PANEL BLOCK

1) Remove the FRONT PANEL BLOCK (refer to section 1-2 on page 7).

3-3-2. Removal of the SYSTEM-FLD PCB

1) Disconnect the P4 connector on the SYSTEM-FLD PCB.
2) Remove the two Ⓐ screws and remove both the PCB HOLDERs.

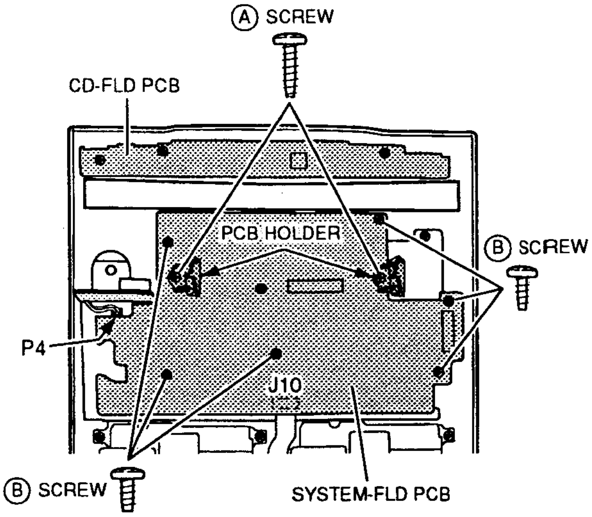

Ⓐ SCREW
CD-FLD PCB
PCB HOLDER
Ⓑ SCREW
P4
J10
Ⓑ SCREW
SYSTEM-FLD PCB

Fig. 3-26

3) Remove the six Ⓑ screws then remove the SYSTEM-FLD PCB by pulling it upwards carefully.
4) Disconnect the flat cable on the J10 connector on the SYSTEM-FLD PCB (AC-600/603R/605K models only).
5) Re-assemble in the reverse order for installation.

3-3-3. Removal of the OPERATION PCB

1) Remove the SYSTEM-FLD PCB (refer to section 3-3-2).
2) Remove the "VOLUME" control knob by pulling it out and then remove the VOLUME control retaining nut.
3) Remove the "BALANCE" and "MIXING" control volume knobs by pulling them out.
4) Remove the ten © screws and remove the OPERATION PCB.

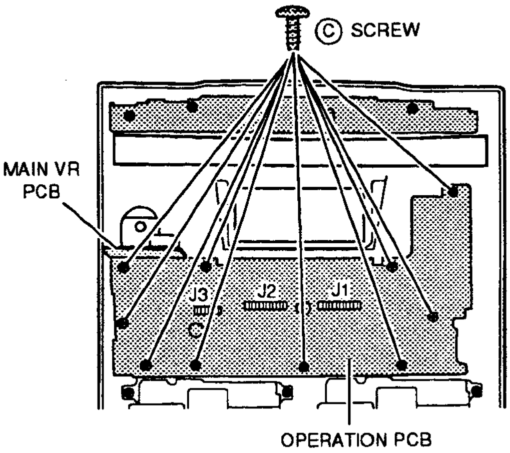


Fig. 3-27

5) Re-assemble in the reverse order for installation. When reattching the SYSTEM-FLD PCB onto the OPERATION PCB, carefully align the position of the three connectors.

NOTE : The BALANCE volume and J3 connector are for AC-600 series models only.

3-3-4. Removal of the SURROUND-FLD PCB. (AC-600/603R/605K models only)

1) Remove the TAPE-I and TAPE-II MECHANISM BLOCK (refer to section 3-2-1).
2) Remove the SYSTEM-FLD PCB and disconnect the J10 connector if necessary.
3) First, disengege the left DOOR STOPPER from the holder on the FRONT PANEL.

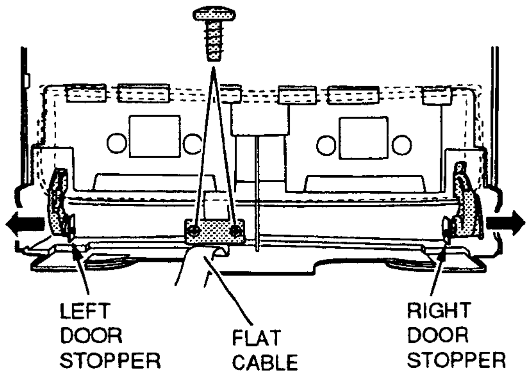


Fig. 3-28

Next, disengage the right DOOR STOPPER very carefully from the holder while moving the left DOOR STOPPER in the lower outward direction and remove the DOOR BLOCK from the FRONT PANEL BLOCK.

4) Remove the five retaining screws on the DOOR COVER then remove the DOOR COVER.

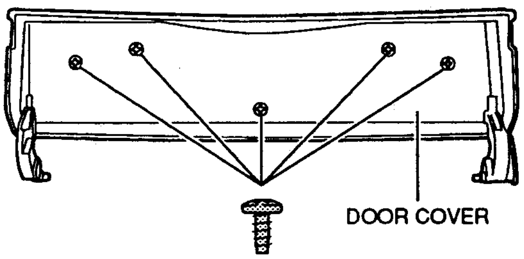


Fig. 3-29

5) Remove the SURROUND-FLD PCB from the DOOR PART.
6) Proceed in the reverse order for installation. When placing the SURROUND-FLD PCB on the DOOR PART, align the two holes on the SURROUND-FLD PCB with their corresponding bosses on the DOOR PART.

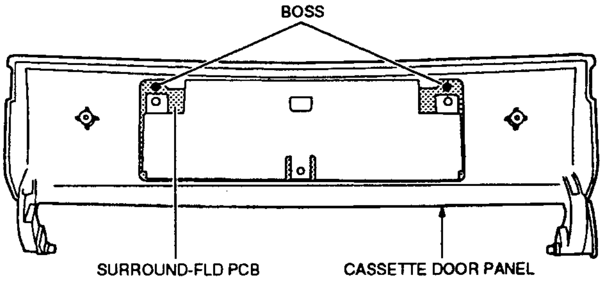


Fig. 3-30

IV. MECHANICAL ADJUSTMENT

4-1. ADJUSTMENT OF THE HEAD AZIMUTH ALIGNMENT

1) Connect an oscilloscope to the L-ch and R-ch speaker terminals of the unit. Set the VOLUME control on the FRONT PANEL at the appropriate level (ie, the output level is not too low or too high).
2) Play back a 10 kHz (−15 dB), HEAD AZIMUTH ALIGNMENT TEST TAPE (TF-106CH) then adjust the HEAD AZIMUTH ALIGNMENT Ⓐ (FWD PLAY) and Ⓑ (REV PLAY) SCREWs respectively so that the waveform level of both the L-ch and R-ch are at maximum and also they are in the same phase in both FWD and REV directions. (Use a sharp edge philips type screwdriver that is de-magnetized for adjustment.)
   Perform the adjustment on both the TAPE-I and TAPE-II heads if necessary.

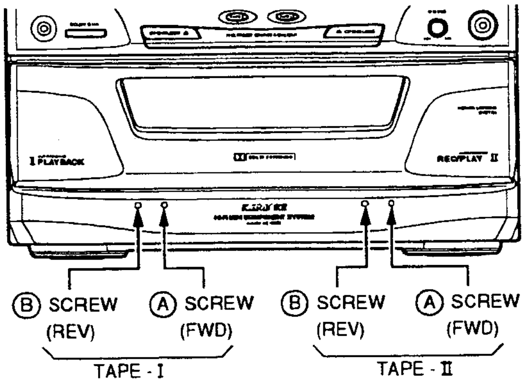


Fig. 4-1

V. ELECTRICAL ADJUSTMENT

5-1. TAPE DECK SECTION

NOTE :

1) The following adjustment should be performed in the "DECK test mode".
   To engage the DECK test mode, connect the AC power cord to the AC outlet while pressing the "TAPE-II" and "■ (stop)" buttons together.
   When the "DECK test mode" is engaged, the "DUBX1" indicator on the FL display will light.
2) When performing the tape speed adjustment, observe the following notes.
   - Adjustment should be started more than 30 seconds after the power is switched ON.
   - Adjustment should be made on X2 speed mode first then adjust the normal speed mode.
   - Adjustment should be made in the forward direction.
3) To disengage the "DECK test mode", press the "POWER" button or unplug the AC power cord from the AC outlet.

STEP	ADJUSTMENT
	1. Test tape/input signal 2. Mode 3. Check point, adjustment part 4. Remarks (•) and result (✻)

Adjustment Part ——→

Test Point - - - →

1 | TAPE-I (X2) TAPE SPEED

1. 3,150 Hz test tape (TF-110CT)
2. TAPE-I, PLAY
3. TP-R.OUT, VR301
4. • Connect a frequency counter to the TP-R.OUT (or L.OUT) and press the "DUBBING" button to engage double speed.
   ✻ 6,340 ± 20 Hz

2 | TAPE-I NORMAL TAPE SPEED

1. 3,150 Hz test tape (TF-110CT)
2. TAPE-I, PLAY
3. TP-R.OUT, VR302
4. • Connect a frequency counter to the TP-R.OUT and press the "DUBBING" button again to resume normal tape speed.
   ✻ 3,150 ± 10 Hz

3 | TAPE-II (X2) TAPE SPEED

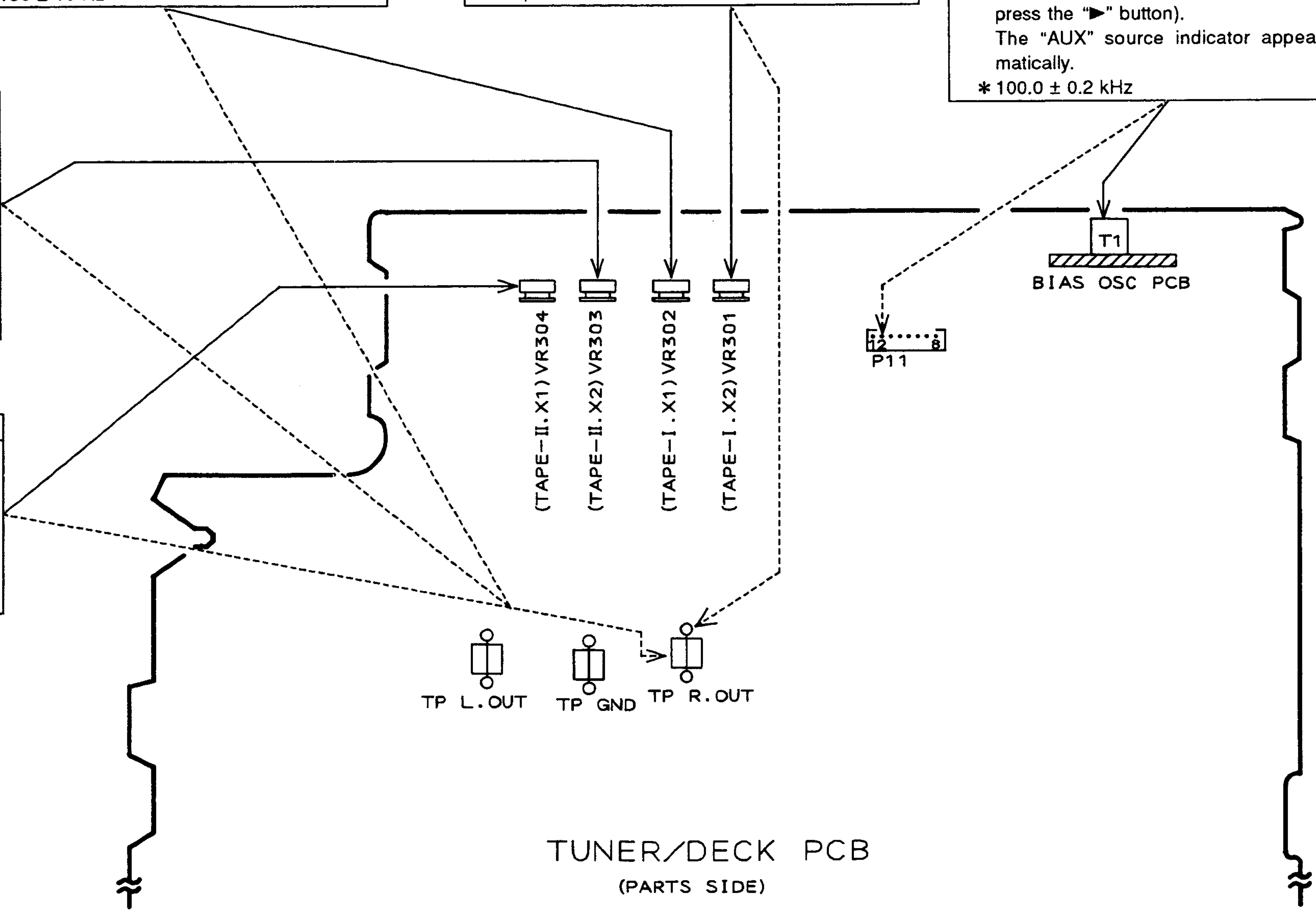
1. 3,150 Hz test tape (TF-110CT)
2. TAPE-II, PLAY
3. TP-R.OUT, VR303
4. • Press the "TAPE-II" button and play back the test tape.
   • Connect a frequency counter to the TP-R.OUT and press the "DUBBING" button to engage double speed.
   ✻ 6,320 ± 20 Hz

4 | TAPE-II NORMAL TAPE SPEED

1. 3,150 Hz test tape (TF-110CT)
2. TAPE-II, PLAY
3. TP-R.OUT, VR304
4. • Connect a frequency counter to the TP-R.OUT and press the "DUBBING" button again to resume normal tape speed.
   ✻ 3,140 ± 10 Hz

5 | BIAS OSC FREQUENCY

1. Normal type blank tape
2. TAPE-II, REC
3. P11 ② pin, T1
4. • Connect a frequency counter between P11 ② pin and GND. (10 : 1 probe should be used to avoid affecting the measurement.)
   • Start a recording (press the "REC" button then press the "►" button).
   The "AUX" source indicator appears automatically.
   ✻ 100.0 ± 0.2 kHz



5-2. CD PLAYER SECTION

TEST MODE FOR CD PLAYER'S OPERATION

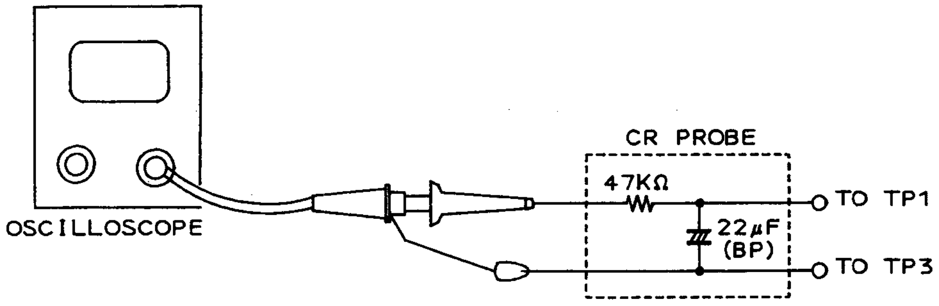
Some adjustments of the CD PLAYER section are automatically carried out by the micro computer.
If the CD player section is defective and it is necessary to partially check the operation, the "CD TEST" mode can be used while repairing.

Engaging the "CD TEST" mode

While pressing and holding both the "■" and "CD1" buttons, plug in the AC power cord to the AC outlet.

NOTE :

- During "CD TEST" mode, only the DISC "1" ⏏ open/close button can be used for loading. So, place a disc on "TRAY 1".
- Proceed testing by pressing the "CD1" button once for each testing step.
  The testing step will return to "TEST" if the "1" ⏏ open/close button is pressed during steps "TEST-1" to "TEST-5".
  To repeat the check after the step number has reached "TEST-5", open the tray once and repeat the procedure by also pressing the "1" ⏏ open/close button.
- To disengage the "CD TEST" mode, press the "POWER ON/STANDBY" button or disconnect the AC power cord from the AC outlet.
- Prepare a CR probe and connect an oscilloscope as shown below before adjustment of "E-F BALANCE".
- Never connect the AC millivoltmeter's or oscilloscope's GND to the ground line of the unit during adjustment as it may cause a "short circuit" of the VREF line to the ground.



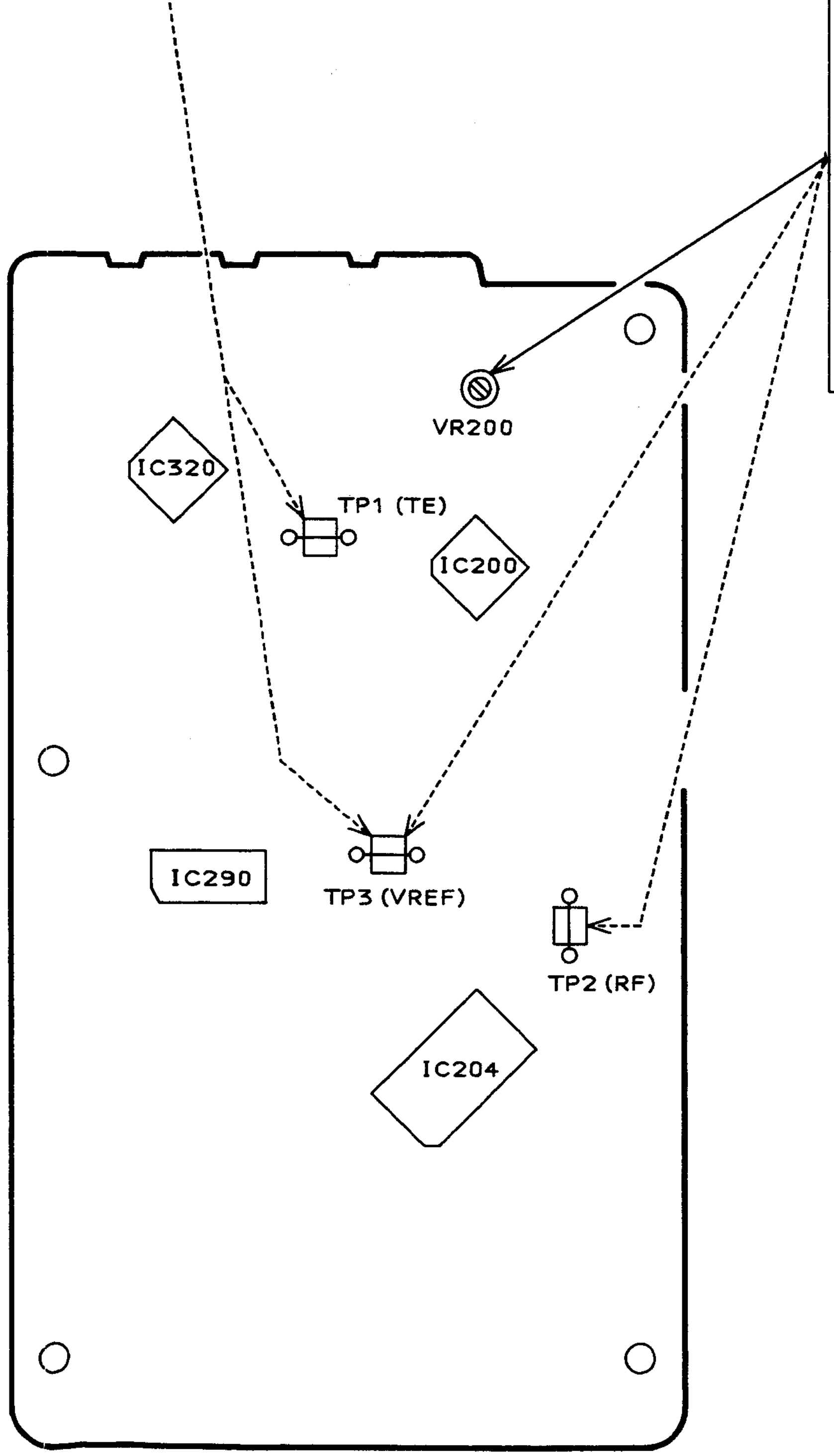
DISPLAY	FUNCTION
TEST	Initial condition of the "CD TEST" mode.
TEST-1	Laser emission is ON.
TEST-2	Perform "focus search" then turn on the "focus servo".
TEST-3	Tracking servo is off and CLV servo is on. Perform "E-F balance" adjustment manually (setting data value of the "E-F balance" is displayed on the FLD).
TEST-4	Tracking gain adjustment is carried out automatically and its data value is displayed on the FLD.
TEST-5	Tracking servo is turned on and the normal playback mode is engaged.

1 E-F BALANCE

1. Test disc (SONY TYPE-III)
2. TEST-3 (test mode)
3. TP1 (TE), TP3 (VREF) & "◀◀","▶▶" button
4. • Connect an oscilloscope to TP1 and TP3 on the CD PCB via CR probe.
   ∗ Press the "◀◀" or "▶▶" button so that the DC level of the waveform is less than ± 20 mV. Disconnect the CR probe then press the CD1 button to memorize the data (shown in the FLD) and proceed to "TEST-4".

2 FOCUS OFFSET

1. Test disc (SONY TYPE-III)
2. TEST-5 (test mode)
3. TP2 (RF OUT), TP3 (VREF) & VR200
4. • Connect the hot side probe of an AC millivoltmeter or oscilloscope to TP2 on the CD PCB and GND side probe to the TP3 (VREF). (Never connect the AC millivoltmeter's or oscilloscope's GND to the ground line of the unit as it may cause a "short circuit" of the VREF line to the ground.
   ∗ Adjust the VR200 on the CD PCB until the waveform on the oscilloscope is most focused and at its maximum level (or indication of the AC millivoltmeter is maximum).



CD PCB (PATTERN SIDE)

VI. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of earch part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important fcr service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2.HEAD BASE BLOCK

Ref. No.	Part. No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20x03STL CMT
4	ZS-536488	BID20x08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

2.MAIN PC BOARD

Ref. No.	Part. No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A)	[S] : SAA (Australia)
[B] : BEAB (England)	[U] : U/T (Universal Area)
[C] : CSA (Canada)	
[E] : CEE (Europe)	[V] : VDE (Germany)
[J] : JPN (Japan)	[Y] : Custom

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

6-1. MUSIC CENTER

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BB-429731N	MECHA CMAL2Z047A(PB)
2	BB-429730N	MECHA CMAL2Z048A(R/P)
3	BB-429714N	MECHATRAVERSE KSM-2101ADM
4	BH-734026J	HEAD BLK (PB) CMAL2Z047
5	BH-734027J	HEAD BLK (R/P) CMAL2Z048
6	BM-734028J	MOTOR BLK W/PULLEY CMAL2Z047
7	BM-733203M	MOTOR GEAR ASSY (MB) [SLED MOTOR]
8	BM-374198	MOTOR RF-370CA-15370 [TABLE MOTOR]
9	BM-408752M1	MOTOR RF-500TB-14415 [LOADING MOTOR]
10	BO-394728J3	PICKUP KSS-210A
11	⚠ BT-770379C	TRANS POW C1040 EV [AC-500[E,B]/503R]
12	⚠ BT-770380C	TRANS POW C1040 S [AC-500[S]]
13	⚠ BT-770381C	TRANS POW C1040 U [AC-505K]
14	⚠ BT-770382C	TRANS POW C1041 EV [AC-600[E,B]/603R]
15	⚠ BT-770383C	TRANS POW C1041 S [AC-600[S]]
16	⚠ BT-770384C	TRANS POW C1041 U [AC-605K]
17	⚠ EC-416655J	C DBL.LAYER T05 FM0H473Z 5.5DC
18	ED-390012J	D LED GL4800 INFRARED
19	ED-429759J	D LED SEL6915A C,D ORANGE
20	ED-429758J	D LED SML1216W C,D GREEN/RED
21	ED-307572	D SILICON H 1SS131
22	⚠ ED-394708J	D SILICON RBA402 200/4.0A
23	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
24	⚠ ED-511907	D SILICON 1N4002 100/1.0A
25	ED-407083J	D ZENER H HZS12C1L
26	ED-422073J	D ZENER H HZS30-3L T26
27	ED-391003J	D ZENER H HZS4C3
28	⚠ ED-387919J	D ZENER H HZS6A1L
29	ED-400171J	D ZENER H HZS6C2L
30	ED-395862J	D ZENER H HZS7A1L
31	⚠ ED-425401J	D ZENER H HZS7A2L
32	ED-390651J	D ZENER H HZS7B2L
33	ED-387763J	D ZENER H HZS7B3L
34	⚠ ED-346528	D ZENER H HZ6C1L
35	EE-429724N	TUNER TFCB1S512A FM/MW/SW [Y7]
36	EE-429723N	TUNER TFCB1U512A FM/AM [S,U5,Y6,U8]
37	EE-429721N	TUNER TFCB3E512A FM/MW/LW [B,E]
38	⚠ EF-403289N	FUSE 218 TIME 250V 1.25A [AC-600/603R/605K]
39	⚠ EF-393708J	FUSE 218 TIME 250V 1.60A [AC-500/503R/505K]
40	⚠ EF-394703N	FUSE 218 TIME 250V 2.50A
41	EH-422066J	COMP R RGLE8T 473J
42	EH-429767J	COMP R RNMT-08-472J
43	EH-429765J	COMP R RNMT-12-472J [AC-600/603R/605K]
44	EH-429768J	COMP R RNRA-08-473J
45	EI-389264J	IC BA6209N [AC-600/603R/605K]
46	EI-419334J	IC BA6247
47	EI-770309C	IC BU4094BC
48	EI-770310C	IC BU4094BCF
49	EI-429718J	IC CXA1782BQ
50	EI-429719J	IC CXA1897Q
51	EI-429720J	IC CXD2508AQ
52	EI-770366C	IC KA9258D
53	EI-349591	IC LA2730
54	EI-770316C	IC LC32464P-80 [AC-605K]
55	EI-416515J	IC LC7073M [AC-503R/603R]
56	EI-770315C	IC LC7872E [AC-605K]
57	EI-419341J	IC MN12510F
58	EI-430849J	IC M38173M6-354FP TX1 DECK-A1 [AC-500/503R/505K]
59	EI-430845J	IC M38184M8-167FP TX1 DECK-B1 [AC-600/603R/605K]
60	EI-430846J	IC M38184M8-168FP TX1 TUCD-A1
61	EI-429746J	IC M65840SP [AC-505K]
62	EI-428178J	IC M65843P [AC-505K]
63	EI-428194J	IC NJM4558DD
64	EI-400756J	IC NJM4558L-B
65	EI-770299C	IC PST-9121 T05
66	EI-415159J	IC SAA6579T [AC-503R/603R]
67	EI-430892J	IC STK400-040
68	⚠ EI-394709J	IC STK4142-2
69	EI-405224J	IC ST24C02AB1/AAB
70	EI-332259	IC TC4052BP [AC-505K]
71	EI-200573	IC TC4053BP
72	EI-770346C	IC TC9299P
73	EI-427639J	OSC CE CSA2.00MG
74	EI-427640J	OSC CE CSB400P [AC-505K]
75	EI-430893J	OSC CE CST16.00MXW-TF01 T05 [AC-505K]
76	EI-396490J	OSC CE CST4.00MGW-TF01 T05
77	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
78	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
79	EI-770397C	OSC X'TAL HC-49/U 14.31818MHZ [AC-605K]
80	EI-770396C	OSC X'TAL HC-49/U 17.734475MHZ [AC-605K]
81	EI-770322C	OSC X'TAL HC-49/U 33868.8KHZ
82	EI-416694M	OSC X'TAL HC-49/U-S 4.33200MHZ [AC-503R/603R]
83	EJ-394490J	SOCKET OPTICAL GP1F32T
84	EM-429752N	IND FL 14-BT-40GK DOUBLE
85	EM-429753N	IND FL 3-MT-21GK DOUBLE
86	EM-429736N	IND FL 6-ST-35GK CHARACTER
87	EQ-770338C	RELAY POW DH2SU 12V
88	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
89	⚠ ER-325381	R FUSE H RF25SJ 1/4W 2R2J
90	ES-733205M	SW LEAF
91	ES-408754M	SW LEAF LSA-1119H
92	ES-408755M	SW LEAF LSA-2127E
93	ES-734037J	SW LEAF SPLF
94	ES-391710J	SW LEAF SPPB51 01-1 NO
95	ES-419356N	SW PUSH PS-135M2-A22S 2-02N [AC-500/503R/505K]
96	⚠ ES-418650J	SW SELECT ESE-37311 [AC-505K/605K]
97	ES-770388C	SW SLIDE SK22D02-G5 [AC-605K]
98	ES-362883	SW TACT SKHHLM
99	ES-394493J	SW TACT SOA-123HS
100	ES-770378C	SW TACT SOA-143HS [AC-600/603R/605K]
101	ET-770313C	DETECTOR PNA4602M
102	ET-734055J	DETECTOR SPI-335-44
103	ET-356336	TR DTA114ES
104	ET-363953	TR DTA114TS
105	ET-369248	TR DTA114YS
106	ET-405334J	TR DTA123JS T05
107	ET-354370	TR DTA124ES
108	ET-354415	TR DTA144ES
109	ET-353897	TR DTC114ES

Ref. No.	Part No.	Description
110	ET-360399	TR DTC114TS [AC-505K]
111	ET-354365	TR DTC114YS
112	ET-373485	TR DTC123JS
113	ET-375986	TR DTC124TS
114	ET-364060	TR DTC143ES [AC-503R/603R]
115	ET-354364	TR DTC143TS
116	ET-368786	TR DTC143ZS T05
117	ET-354414	TR DTC144ES
118	ET-354094	TR DTC144WS
119	ET-337759	TR FET 2SK246 GR [AC-503R/603R]
120	ET-770372C	TR FET 2SK372 GR,BL T05
121	ET-390010J	TR PHOTO PT4800
122	ET-353899	TR 2SA1317 S,T,U
123	ET-388338J	TR 2SB1425 S,E
124	ET-408841J	TR 2SB1565 E,F
125	ET-770339C	TR 2SB822 Q,R
126	ET-397160J	TR 2SC3330 R,S,T,U,V
127	ET-404320J	TR 2SC3331 T,U T05
128	ET-361736	TR 2SC3576
129	ET-397176J	TR 2SD1012-V F,G,H
130	ET-770401C	TR 2SD1055 Q,R [AC-600/603R/605K]
131	ET-366168	TR 2SD1292 Q,R
132	ET-408842J	TR 2SD2394 E,F
133	ET-416697J	TR 2SD2396 J,K
134	EV-429738N	VR SPL RK16812MG L20 SPE.104X2 [AC-500/503R/505K]
135	EV-429739N	VR SPL RK16814MG L20 SPE.104X4 [AC-600/603R/605K]
136	EW-770405C	CORD FFC AD P1.25 L=265 5P
137	EW-770355C	CORD FFC AD P1.25 L320 10P
138	MA-734059J	TURNTABLE CHASSISASSY KSM-2101ADM [SPINDLE MOTOR]
139	MB-734036J	BELT F/R
140	MB-770081C	BELT LOADING (CH)
141	MB-734035J	BELT MAIN
142	ZS-733963J	BID20X06STL CMT

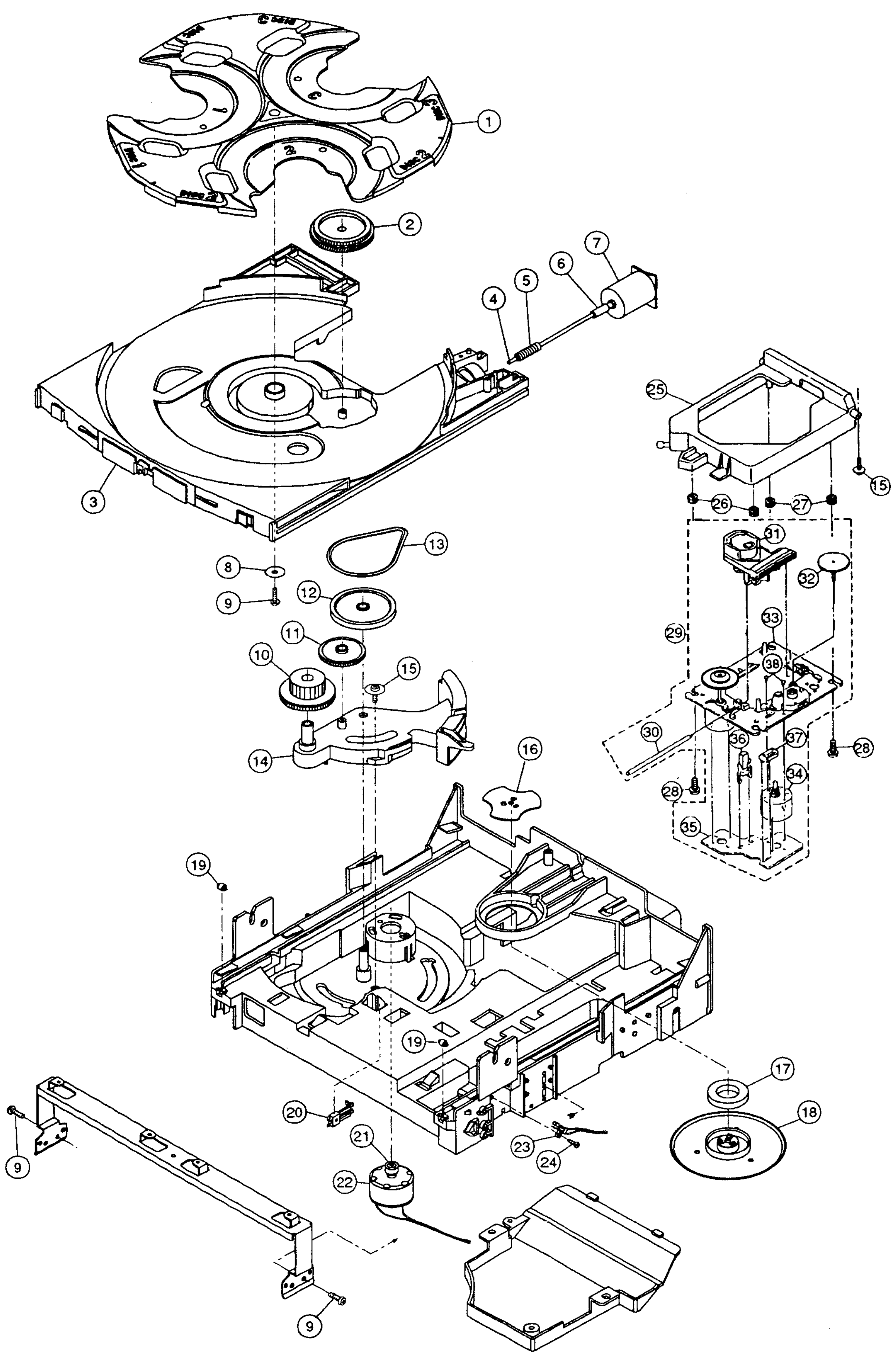
2. CD MECHANISM BLOCK

Ref. No.	Part No.	Description
1	MZ-770088C	HOLDER DISC (CH)
2	MZ-770087C	GEAR WORMWHEEL TABLE (CH)
3	SC-770084C	TRAY LOADING (CH)
4	MS-770086C	SHAFT (CH)
5	MZ-429134J	WORM
6	MZ-770085C	JOINT (CH)
7	BM-374198	MOTOR RF-370CA-15370 [TABLE MOTOR]
8	ZW-396336M	PW30X150X080STL CMT (SG)
9	ZS-394414J	BT BID30X08STL BZN
10	MZ-770080C	GEAR LOADING(A) (CH)
11	MZ-770075C	GEAR LOADING(B) (CH)
12	MR-770076C	PULLEY GEAR (CH)
13	MB-770081C	BELT LOADING (CH)
14	BL-770074C	HOLDER GEAR (CH)
15	ZS-407886J	BT PAN30X08STL BZN C100
16	MZ-770078C	PLATE CLAMPER (CH)
17	MZ-413089J	MAGNET FM30X17X5.2 4P
18	MZ-770077C	CLAMPER (CH)
19	MR-407755M	ROLLER (SG)
20	ES-408755M	SW LEAF LSA-2127E
21	MR-770079C	PULLEY (CH)
22	BM-408752M1	MOTOR RF-500TB-14415 [LOADING MOTOR]
23	ES-408754M	SW LEAF LSA-1119H
24	ZS-343082	PT BR26X08STL CMT
25	MZ-770082C	HOLDER TRAVERSE (CH)
26	MB-770359C	INSULATOR(G) (CH)
27	MB-770360C	INSULATOR(B) (CH)
28	ZS-770083C	SCREW GRADUATED (CH)
29	BB-429714N	MECHA TRAVERSE KSM-2101ADM
30	MS-733198M	SLIDE SHAFT
31	BO-394728J3	PICKUP KSS-210A
32	MZ-733201M	GEAR (A)
33	MA-734059J	TURNTABLE CHASSISASSY KSM-2101ADM [SPINDLE MOTOR]
34	BM-733203M	MOTOR GEARASSY (MB) [SLED MOTOR]
35	EA-733204M	MOTOR P.C BOARD (6P)
36	ES-733205M	SW LEAF
37	EJ-733206M	CONNECTOR 6P
38	ZS-477876	PAN20X03STL CMT

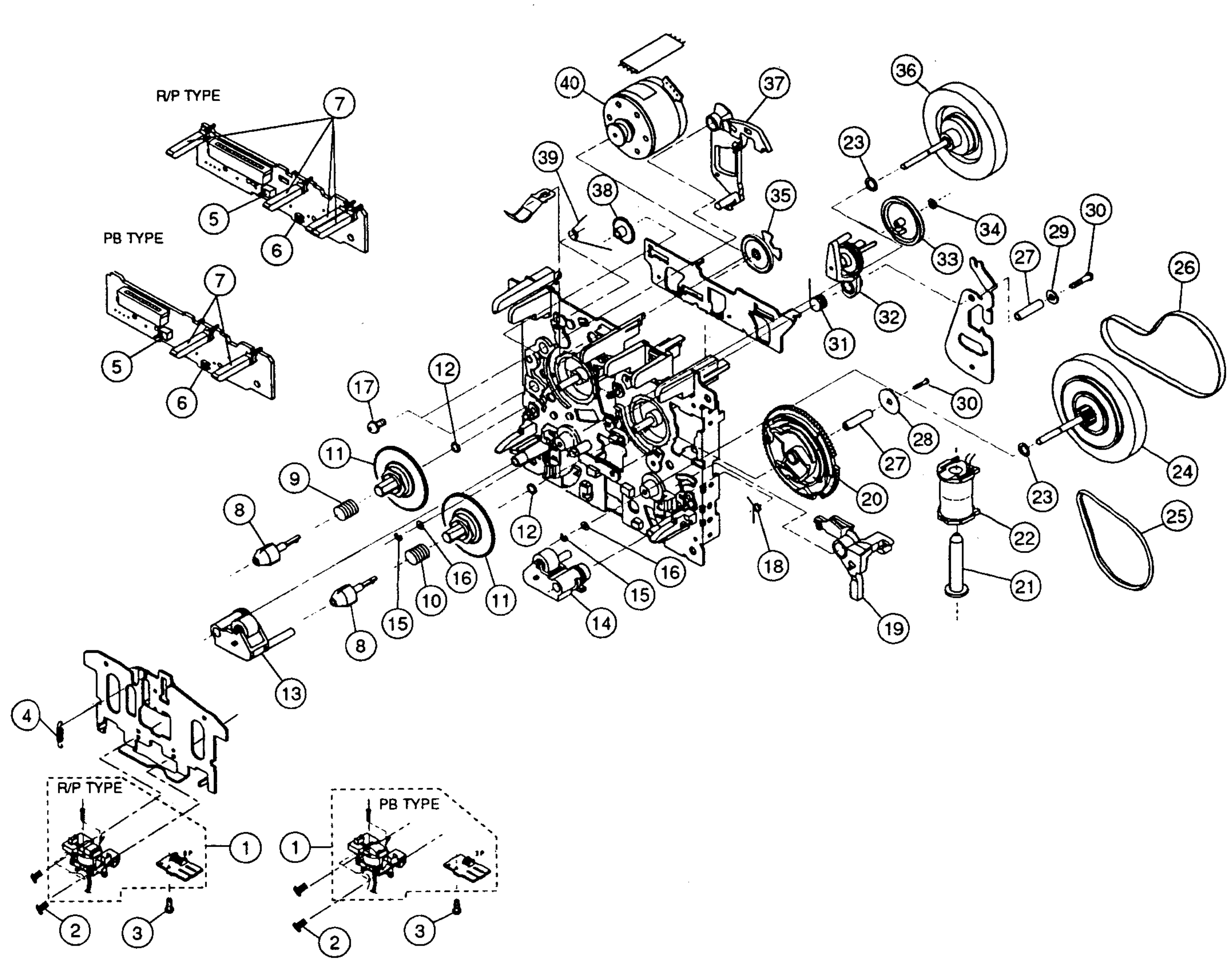
NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

CD MECHANISM BLOCK



DECK MECHANISM BLOCK (CMAL2Z047/048)



3. DECK MECHANISM BLOCK (CMAL2Z047/048)

Ref. No.	Part No.	Description
1-A	BH-734026J	HEAD BLK (PB) CMAL2Z047
1-B	BH-734027J	HEAD BLK (R/P) CMAL2Z048
2	ZS-733963J	BID20X06STL CMT
3	ZS-464703	BID20X04STL CMT
4	ZG-733421J	SP HB
5	ES-391710J	SW LEAF SPPB51 01-1 NO
6	ET-734055J	DETECTOR SPI-335-44
7	ES-734037J	SW LEAF SPLF
8	MT-734042J	REEL FEATHER
9	ZG-734043J	SP REEL (L)
10	ZG-734044J	SP REEL (R)
11	MR-734041J	RELL BASE
12	ZW-259738	PW41X070X025PSL
13	BL-734034J	PINCH ROLLER (L) BLK
14	BL-734033J	PINCH ROLLER (R) BLK
15	ZW-733441J	E-RING
16	ZW-733434J	WASHER 2.6X0.5
17	ZS-733439J	SCREW 2.6X5
18	ZG-734039J	SP ARM PLAY
19	ML-734038J	ARM PLAY
20	MZ-734054J	GEAR CAM MAIN
21	MZ-734053J	PLAUGER
22	EP-734052J	SOLENOID BLK
23	ZW-733433J	WASHER 2.6X0.25
24	MI-734032J	FLYWHEEL CLUTCH ASSY
25	MB-734036J	BELT F/R
26	MB-734035J	BELT MAIN
27	MZ-734049J	SPACER
28	ZW-734056J	PW20X090X030
29	ZW-354346	PW21X060X025PBR
30	ZS-343113	ST PAN20X12STL CMT
31	ZG-734040J	SP CAM
32	MZ-734031J	REEL CLUTCH ASSY
33	MR-734047J	PULLEY F/R
34	ZW-717841	WASHER PSL
35	MZ-734048J	GEAR (A) FF
36	BF-734046J	FLYWHEEL ASSY
37	ML-734050J	LEVER BRAKE
38	MZ-734045J	GEAR PLAY (A)
39	ZG-734051J	SP BRAKE
40	BM-734028J	MOTOR BLK W/PULLEY CMAL2Z047

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

4. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1-A	BA-C1040C060A	CH PC MAIN500 BLKAC-500(E)/CH [AC-500/503R]
1-B	BA-C1040C060B	CH PC MAIN500 BLKAC-505K(U5)/CH [AC-505K]
1-C	BA-C1041C060A	CH PC(#) MAIN600 BLKAC-600(E)/CH [AC-600/603R]
1-D	BA-C1041C060B	CH PC(#) MAIN600 BLKAC-605K(U5)/CH [AC-605K]
2-A	BA-C1040C070A	CH PC(#)CD-SYS BLKAC-500(E)/CH [E,B]
2-B	BA-C1040C070B	CH PC(#)CD-SYS BLKAC-500(S)/CH
2-C	BA-C1040C070C	CH PC(#)CD-SYS BLKAC-503R(E)/CH
2-D	BA-C1040C070D	CH PC(#)CD-SYS BLKAC-505K(U5)/CH [U5,Y6,U8]
2-E	BA-C1040C070E	CH PC(#)CD-SYS BLKAC-505K(Y7)/CH
2-F	BA-C1040C070F	CH PC(#)CD-SYS BLKAC-600(E)/CH [E,B]
2-G	BA-C1040C070G	CH PC(#)CD-SYS BLKAC-600(S)/CH
2-H	BA-C1040C070H	CH PC(#)CD-SYS BLKAC-603R(E)/CH
2-I	BA-C1040C070J	CH PC(#)CD-SYS BLKAC-605K(U5)/CH [U5,Y6,U8]
2-J	BA-C1040C070K	CH PC(#)CD-SYS BLKAC-605K(Y7)/CH
3-A	BA-C1040C080A	CH PC(#)TU-DK BLKAC-500(E)/CH [E,B]
3-B	BA-C1040C080B	CH PC(#)TU-DK BLKAC-500(S)/CH
3-C	BA-C1040C080C	CH PC(#)TU-DK BLKAC-503R(E)/CH
3-D	BA-C1040C080D	CH PC(#)TU-DK BLKAC-505K(U5)/CH [U5,Y6,U8]
3-E	BA-C1040C080E	CH PC(#)TU-DK BLKAC-505K(Y7)/CH
3-F	BA-C1040C080F	CH PC(#)TU-DK BLKAC-600(E)/CH [E,B]
3-G	BA-C1040C080G	CH PC(#)TU-DK BLKAC-600(S)/CH
3-H	BA-C1040C080H	CH PC(#)TU-DK BLKAC-603R(E)/CH
3-I	BA-C1040C080J	CH PC(#)TU-DK BLKAC-605K(U5)/CH [U5,Y6,U8]
3-J	BA-C1040C080K	CH PC(#)TU-DK BLKAC-605K(Y7)/CH

PC (#) MAIN 600 BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- MAIN P.C. BOARD
- SURROUND-FLD P.C. BOARD

PC (#) CD-SYS BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- SYSTEM-FLD P.C. BOARD
- OPERATION P.C. BOARD
- CD P.C. BOARD
- MAIN VR P.C. BOARD
- DETECT P.C. BOARD
- VR LED P.C. BOARD
- JUNCTION P.C. BOARD

PC (#) TU-DK BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- TUNER/DECK P.C. BOARD
- CD FLD P.C. BOARD
- BIAS OSC P.C. BOARD

5. MAIN P.C. BOARD (AC-500/503R/505K)

Ref. No.	Part No.	Description
C1	EC-394535J	C EC V CUT SME 332M 45.0DC
C2	EC-394535J	C EC V CUT SME 332M 45.0DC
C3	EC-322420	C EC V CUT AS1 332M 25.0DC
C5	EC-367048	C EC V CUT SME 101M 63.0DC
D1	⚠ ED-394708J	D SILICON RBA402 200/4.0A
D2	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D3	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D4	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D5	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D6	⚠ ED-511907	D SILICON 1N4002 100/1.0A
D7	⚠ ED-511907	D SILICON 1N4002 100/1.0A
D8	⚠ ED-511907	D SILICON 1N4002 100/1.0A
D9	⚠ ED-387919J	D ZENER H HZS6A1L
D101	ED-387763J	D ZENER H HZS7B3L
D102	ED-307572	D SILICON H 1SS131
D103	ED-307572	D SILICON H 1SS131
D104	ED-387763J	D ZENER H HZS7B3L
D105	ED-511907	D SILICON 1N4002 100/1.0A
D106	ED-511907	D SILICON 1N4002 100/1.0A
D111	ED-395862J	D ZENER H HZS7A1L
D112	ED-407083J	D ZENER H HZS12C1L
D113	ED-400171J	D ZENER H HZS6C2L
D114	ED-307572	D SILICON H 1SS131
D115	ED-307572	D SILICON H 1SS131
D116	ED-307572	D SILICON H 1SS131
D117	ED-307572	D SILICON H 1SS131
D118	ED-307572	D SILICON H 1SS131
D119	ED-407083J	D ZENER H HZS12C1L
D121	ED-307572	D SILICON H 1SS131
D122	ED-422073J	D ZENER H HZS30-3L T26
D123	ED-307572	D SILICON H 1SS131
D131	ED-390651J	D ZENER H HZS7B2L
D132	ED-390651J	D ZENER H HZS7B2L
D133	ED-400171J	D ZENER H HZS6C2L
D281	ED-307572	D SILICON H 1SS131
D282	ED-307572	D SILICON H 1SS131
D283	ED-307572	D SILICON H 1SS131
D284	ED-307572	D SILICON H 1SS131
D285	ED-307572	D SILICON H 1SS131
D286	ED-307572	D SILICON H 1SS131
D287	ED-307572	D SILICON H 1SS131
D288	ED-307572	D SILICON H 1SS131
D301	ED-400171J	D ZENER H HZS6C2L
D302	ED-400171J	D ZENER H HZS6C2L
D303	ED-307572	D SILICON H 1SS131
D304	ED-307572	D SILICON H 1SS131
D305	ED-307572	D SILICON H 1SS131
D601	ED-307572	D SILICON H 1SS131 [AC-505K]
D602	ED-307572	D SILICON H 1SS131 [AC-505K]
D603	ED-307572	D SILICON H 1SS131 [AC-505K]
F3	⚠ EF-394703N	FUSE 218 TIME 250V 2.50A
FR1	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
FR2	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
IC1	⚠ EI-394709J	IC STK4142-2
IC503	EI-200573	IC TC4053BP
IC504	EI-200573	IC TC4053BP [AC-505K]
IC505	EI-400756J	IC NJM4558L-B
IC506	EI-400756J	IC NJM4558L-B
IC602	EI-332259	IC TC4052BP [AC-505K]
IC603	EI-200573	IC TC4053BP [AC-505K]
IC604	EI-429746J	IC M65840SP [AC-505K]
IC605	EI-400756J	IC NJM4558L-B [AC-505K]
IC606	EI-428178J	IC M65843P [AC-505K]
J5	EJ-770347C	SOCKET TKC-V16X-A1 16P
J201	EJ-359671	PHONE J 1P YKB21-5101 3.5
L201	EO-403613J	COIL FIX 2 202AK-018A 2R2K

Ref. No.	Part No.	Description
L202	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L204	EO-342936	COIL BALUM [AC-500/503R]
L205	EO-342936	COIL BALUM [AC-500/503R]
RL1	EQ-770338C	RELAY POW DH2SU 12V
R3	⚠ ER-770348C	R OMF H S10FLR ERX12SP1/2W220J
R101	⚠ ER-770390C	R OMF H S10FLR ERX12SP1/2W3R9J
R111	ER-770391C	R OMF H S10FLR ERX12SP1/2WR33J
R151	ER-770332C	R OMF H S10FLR ERX12SP1/2W1R0J
R152	ER-770329C	R OMF H S10FLR ERX12SP1/2WR47J
R153	ER-770329C	R OMF H S10FLR ERX12SP1/2WR47J
R207	ER-362495	R OMF H S10 FS 1/2W 101J
R208	ER-387923J	R OMF H S12 FS 1W 222J
R209	ER-387923J	R OMF H S12 FS 1W 222J
R210	ER-362495	R OMF H S10 FS 1/2W 101J
R211	ER-336772	R OMF H S15 FS 1W 270J
R212	ER-770335C	R OMF H S12 FLR ERX1SP 1W 3R3J
R261	ER-336772	R OMF H S15 FS 1W 270J
R262	ER-770335C	R OMF H S12 FLR ERX1SP 1W 3R3J
R295	ER-397194J	R OMF V T05FS ERG1SE 1W 331J
R296	ER-397194J	R OMF V T05FS ERG1SE 1W 331J
R311	⚠ ER-770375C	R CT P F09 PLATE 2W R10K
R312	⚠ ER-770375C	R CT P F09 PLATE 2W R10K
R690	ER-333023	R OMF H S20 FS 2W 100J [AC-505K]
TM201	EJ-408698J	TERMINAL PUSH LQR0810-0006 8P
TR101	ET-353899	TR 2SA1317 S,T,U
TR102	ET-353897	TR DTC114ES
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-416697J	TR 2SD2396 J,K
TR105	ET-770339C	TR 2SB822 Q,R
TR106	ET-354365	TR DTC114YS
TR111	ET-353899	TR 2SA1317 S,T,U
TR112	ET-397160J	TR 2SC3330 R,S,T,U,V
TR114	ET-408841J	TR 2SB1565 E,F
TR115	ET-397160J	TR 2SC3330 R,S,T,U,V
TR116	ET-368786	TR DTC143ZS T05
TR118	ET-363953	TR DTA114TS
TR119	ET-363953	TR DTA114TS
TR120	ET-363953	TR DTA114TS
TR121	ET-397160J	TR 2SC3330 R,S,T,U,V
TR122	ET-356336	TR DTA114ES
TR123	ET-408841J	TR 2SB1565 E,F
TR124	ET-353899	TR 2SA1317 S,T,U
TR201	ET-397176J	TR 2SD1012-V F,G,H
TR202	ET-397176J	TR 2SD1012-V F,G,H
TR203	ET-369248	TR DTA114YS
TR281	ET-354414	TR DTC144ES
TR282	ET-354414	TR DTC144ES
TR283	ET-354414	TR DTC144ES
TR284	ET-353899	TR 2SA1317 S,T,U
TR285	ET-354414	TR DTC144ES
TR301	ET-353897	TR DTC114ES
TR302	ET-353897	TR DTC114ES
TR303	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-397160J	TR 2SC3330 R,S,T,U,V
TR305	ET-356336	TR DTA114ES
TR306	ET-356336	TR DTA114ES
TR307	ET-397160J	TR 2SC3330 R,S,T,U,V
TR308	ET-397160J	TR 2SC3330 R,S,T,U,V
TR603	ET-360399	TR DTC114TS [AC-505K]
TR604	ET-360399	TR DTC114TS [AC-505K]
TR605	ET-360399	TR DTC114TS [AC-505K]
X601	EI-430893J	OSC CE CST16.00MXW-TF01 T05 [AC-505K]
X603	EI-427640J	OSC CE CSB400P [AC-505K]

6. MAIN P.C. BOARD (AC-600/603R/605K)

Ref. No.	Part No.	Description
C1	EC-383075J	C EC V CUT SME 332M 35.0DC
C2	EC-383075J	C EC V CUT SME 332M 35.0DC
C3	EC-322420	C EC V CUT AS1 332M 25.0DC
C5	EC-363489	C EC V CUT SME 221M 63.0DC
D1	⚠ ED-394708J	D SILICON RBA402 200/4.0A
D2	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D3	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D4	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D5	⚠ ED-431031N	D SILICON RL152 F08 100/1.5A
D6	⚠ ED-511907	D SILICON 1N4002 100/1.0A
D7	⚠ ED-511907	D SILICON 1N4002 100/1.0A
D8	⚠ ED-511907	D SILICON 1N4002 100/1.0A
D9	⚠ ED-387919J	D ZENER H HZS6A1L
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D101	⚠ ED-390651J	D ZENER H HZS7B2L
D102	ED-307572	D SILICON H 1SS131
D104	⚠ ED-425401J	D ZENER H HZS7A2L
D105	ED-511907	D SILICON 1N4002 100/1.0A
D111	⚠ ED-425401J	D ZENER H HZS7A2L
D112	⚠ ED-346528	D ZENER H HZ6C1L
D113	ED-307572	D SILICON H 1SS131
D114	ED-307572	D SILICON H 1SS131
D115	ED-307572	D SILICON H 1SS131
D116	ED-407083J	D ZENER H HZS12C1L
D121	ED-307572	D SILICON H 1SS131
D122	⚠ ED-422073J	D ZENER H HZS30-3L T26
D131	⚠ ED-390651J	D ZENER H HZS7B2L
D132	⚠ ED-390651J	D ZENER H HZS7B2L
D133	⚠ ED-346528	D ZENER H HZ6C1L
D301	ED-387919J	D ZENER H HZS6A1L
D302	ED-387919J	D ZENER H HZS6A1L
D303	ED-307572	D SILICON H 1SS131
D304	ED-307572	D SILICON H 1SS131
D305	ED-307572	D SILICON H 1SS131
D441	ED-307572	D SILICON H 1SS131
D601	ED-307572	D SILICON H 1SS131 [AC-605K]
D602	ED-307572	D SILICON H 1SS131 [AC-605K]
D603	ED-307572	D SILICON H 1SS131 [AC-605K]
D604	ED-307572	D SILICON H 1SS131
F3	⚠ EF-394703N	FUSE 218 TIME 250V 2.50A
FR1	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
FR2	⚠ ER-200746	R FUSE H ERD2FC 1/4W 1000G
IC201	EI-430892J	IC STK400-040
IC401	EI-400756J	IC NJM4558L-B
IC402	EI-349591	IC LA2730
IC403	EI-770346C	IC TC9299P
IC503	EI-200573	IC TC4053BP
IC504	EI-200573	IC TC4053BP
IC505	EI-400756J	IC NJM4558L-B
IC506	EI-400756J	IC NJM4558L-B
IC602	EI-332259	IC TC4052BP [AC-605K]
IC603	EI-200573	IC TC4053BP [AC-605K]
IC604	EI-429746J	IC M65840SP [AC-605K]
IC605	EI-400756J	IC NJM4558L-B
IC606	EI-428178J	IC M65843P
J5	EJ-770347C	SOCKET TKC-V16X-A1 16P
J201	EJ-429744J	PHONE J 3P HSJ3000-01-010 3.5
L201	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L202	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L203	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L204	EO-342936	COIL BALUM [AC-600/603R]
L205	EO-342936	COIL BALUM [AC-600/603R]
RL1	EQ-770338C	RELAY POW DH2SU 12V

Ref. No.	Part No.	Description
R3	⚠ ER-770389C	R OMF H S10FLR ERX12SP1/2W150J
R101	⚠ ER-770373C	R OMF H S10FLR ERX12SP1/2W1R8J
R111	ER-405439J	R OMF H S15 FS 1W R33J
R207	ER-341940	R OMF H S15 FS 1W 100J
R208	ER-341940	R OMF H S15 FS 1W 100J
R257	ER-341940	R OMF H S15 FS 1W 100J
R258	ER-341940	R OMF H S15 FS 1W 100J
R277	ER-341940	R OMF H S15 FS 1W 100J
R278	ER-341940	R OMF H S15 FS 1W 100J
R281	ER-422301J	R OMF V T05FS ERG12SE1/2W 100J
R282	⚠ ER-422301J	R OMF V T05FS ERG12SE1/2W 100J
R311	⚠ ER-770375C	R CT P F09 PLATE 2W R10K
R312	⚠ ER-770375C	R CT P F09 PLATE 2W R10K
R313	⚠ ER-770400C	R CT P F09 PLATE 2W R18K
R690	ER-333023	R OMF H S20 FS 2W 100J
TM201	EJ-408698J	TERMINAL PUSH LQR0810-0006 8P
TR1	ET-354414	TR DTC144ES
TR101	ET-353899	TR 2SA1317 S,T,U
TR102	ET-360399	TR DTC114TS
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-408842J	TR 2SD2394 E,F
TR105	ET-770339C	TR 2SB822 Q,R
TR106	ET-354365	TR DTC114YS
TR111	ET-353899	TR 2SA1317 S,T,U
TR112	ET-397160J	TR 2SC3330 R,S,T,U,V
TR113	ET-360399	TR DTC114TS
TR114	ET-373485	TR DTC123JS
TR115	ET-397160J	TR 2SC3330 R,S,T,U,V
TR116	⚠ ET-408841J	TR 2SB1565 E,F
TR123	ET-408841J	TR 2SB1565 E,F
TR124	ET-353899	TR 2SA1317 S,T,U
TR201	ET-397176J	TR 2SD1012-V F,G,H
TR202	ET-369248	TR DTA114YS
TR251	ET-397176J	TR 2SD1012-V F,G,H
TR271	ET-397176J	TR 2SD1012-V F,G,H
TR272	ET-354415	TR DTA144ES
TR281	ET-397160J	TR 2SC3330 R,S,T,U,V
TR282	ET-353899	TR 2SA1317 S,T,U
TR283	ET-397160J	TR 2SC3330 R,S,T,U,V
TR284	ET-354415	TR DTA144ES
TR285	ET-354414	TR DTC144ES
TR286	ET-354415	TR DTA144ES
TR301	ET-354365	TR DTC114YS
TR302	ET-354365	TR DTC114YS
TR303	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-397160J	TR 2SC3330 R,S,T,U,V
TR305	ET-354415	TR DTA144ES
TR314	ET-397160J	TR 2SC3330 R,S,T,U,V
TR315	ET-397160J	TR 2SC3330 R,S,T,U,V
TR316	ET-397160J	TR 2SC3330 R,S,T,U,V
TR441	ET-353899	TR 2SA1317 S,T,U
TR442	ET-360399	TR DTC114TS
TR603	ET-360399	TR DTC114TS [AC-605K]
TR604	ET-360399	TR DTC114TS [AC-605K]
TR605	ET-360399	TR DTC114TS [AC-605K]
TR606	ET-360399	TR DTC114TS [AC-605K]
TR607	ET-360399	TR DTC114TS [AC-605K]
TR608	ET-360399	TR DTC114TS [AC-605K]
TR609	ET-360399	TR DTC114TS [AC-605K]
TR610	ET-360399	TR DTC114TS [AC-605K]
TR611	ET-360399	TR DTC114TS [AC-605K]
TR612	ET-360399	TR DTC114TS [AC-605K]
X601	EI-430893J	OSC CE CST16.00MXW-TF01 T05 [AC-605K]
X602	EI-427639J	OSC CE CSA2.00MG
X603	EI-427640J	OSC CE CSB400P [AC-605K]

7. SURROUND-FLD P.C. BOARD (AC-600/603R/605K)

Ref. No.	Part No.	Description
IB801	EH-429768J	COMP R RNRA-08-473J
IC801	EI-419341J	IC MN12510F
IN801	EM-429753N	IND FL 3-MT-21GK DOUBLE
J801	EJ-429877N	SOCKET 00 6216 010 100 10P
X801	EI-396490J	OSC CE CST4.00MGW-TF01 T05

8. SYSTEM-FLD P.C. BOARD

Ref. No.	Part No.	Description
C6	⚠ EC-416655J	C DBL.LAYER T05 FM0H473Z 5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
FR1	⚠ ER-325381	R FUSE H RF25SJ 1/4W 2R2J
IB1	EH-422066J	COMP R RGLE8T 473J
IB2	EH-429767J	COMP R RNMT-08-472J
IC1	EI-430846J	IC M38184M8-168FP TX1TUCD-A1
IC2	EI-770299C	IC PST-9121 T05
IC3	EI-405224J	IC ST24C02AB1/AAB
IC4	EI-415159J	IC SAA6579T [AC-503R/603R]
IC5	EI-416515J	IC LC7073M [AC-503R/603R]
IN1	EM-429752N	IND FL 14-BT-40GK DOUBLE
J10	EJ-429877N	SOCKET 00 6216 010 100 10P [AC-600/603R/605K]
P1	EJ-770300C	PLUG TKC-A14P-C1 14P
P2	EJ-770300C	PLUG TKC-A14P-C1 14P
P3	EJ-770301C	PLUG TKC-A05P-C1 5P [AC-600/603R/605K]
P5	EJ-770302C	PLUG TKC-V16P-A1 16P
P6	EJ-770303C	PLUG TKC-V24P-A1 24P
TR1	ET-369248	TR DTA114YS
TR2	ET-361736	TR 2SC3576
TR3	ET-361736	TR 2SC3576
TR4	ET-354414	TR DTC144ES
TR5	ET-354414	TR DTC144ES
TR6	ET-354414	TR DTC144ES
TR7	ET-354414	TR DTC144ES
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR9	ET-397160J	TR 2SC3330 R,S,T,U,V
TR10	ET-353899	TR 2SA1317 S,T,U
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-353899	TR 2SA1317 S,T,U [AC-503R/603R]
TR13	ET-364060	TR DTC143ES [AC-503R/603R]
TR14	ET-388338J	TR 2SB1425 S,E
TR15	ET-364060	TR DTC143ES
X1	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
X2	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
X3	EI-416694M	OSC X'TAL HC-49/U-S 4.33200MHZ [AC-503R/603R]
X4	EI-396490J	OSC CE CST4.00MGW-TF01 T05 [AC-503R/603R]

9. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
D100	ED-429759J	D LED SEL6915A C,D ORANGE
D101	ED-429759J	D LED SEL6915A C,D ORANGE
D102	ED-429759J	D LED SEL6915A C,D ORANGE
D103	ED-429759J	D LED SEL6915A C,D ORANGE
D104	ED-429759J	D LED SEL6915A C,D ORANGE
D105	ED-429759J	D LED SEL6915A C,D ORANGE
D106	ED-429759J	D LED SEL6915A C,D ORANGE
D107	ED-429759J	D LED SEL6915A C,D ORANGE
D108	ED-429759J	D LED SEL6915A C,D ORANGE
D109	ED-429759J	D LED SEL6915A C,D ORANGE
D110	ED-429759J	D LED SEL6915A C,D ORANGE
D111	ED-429758J	D LED SML1216W C,D GREEN/RED
D112	ED-429758J	D LED SML1216W C,D GREEN/RED
D113	ED-429758J	D LED SML1216W C,D GREEN/RED
D114	ED-429758J	D LED SML1216W C,D GREEN/RED
D115	ED-429758J	D LED SML1216W C,D GREEN/RED
D116	ED-429758J	D LED SML1216W C,D GREEN/RED
D117	ED-429758J	D LED SML1216W C,D GREEN/RED
D118	ED-429759J	D LED SEL6915A C,D ORANGE
D119	ED-346528	D ZENER H HZ6C1L
IC100	EI-428194J	IC NJM4558DD
IC101	EI-770309C	IC BU4094BC
IC102	EI-770309C	IC BU4094BC
IC103	EI-770310C	IC BU4094BCF
J1	EJ-770311C	SOCKET TKC-A14X-A1 14P
J2	EJ-770311C	SOCKET TKC-A14X-A1 14P
J3	EJ-770312C	SOCKET TKC-A05X-A1 5P [AC-600/603R/605K]
J100	EJ-410383J	PHONE J 2P HSJ1406-01-010 3.5
J101	EJ-410383J	PHONE J 2P HSJ1406-01-010 3.5 [AC-505K/605K]
PH100	ET-770313C	DETECTOR PNA4602M
SW100	ES-419356N	SW PUSH PS-135M2-A22S 2-02N [AC-500/503R/505K]
TR100	ET-353899	TR 2SA1317 S,T,U
TR101	ET-353899	TR 2SA1317 S,T,U
TS100	ES-394493J	SW TACT SOA-123HS
TS101	ES-394493J	SW TACT SOA-123HS
TS102	ES-394493J	SW TACT SOA-123HS
TS103	ES-394493J	SW TACT SOA-123HS
TS104	ES-394493J	SW TACT SOA-123HS
TS105	ES-394493J	SW TACT SOA-123HS
TS106	ES-394493J	SW TACT SOA-123HS
TS107	ES-394493J	SW TACT SOA-123HS
TS108	ES-394493J	SW TACT SOA-123HS
TS109	ES-394493J	SW TACT SOA-123HS
TS110	ES-394493J	SW TACT SOA-123HS
TS111	ES-394493J	SW TACT SOA-123HS [AC-505K/605K]
TS112	ES-394493J	SW TACT SOA-123HS
TS113	ES-394493J	SW TACT SOA-123HS
TS114	ES-394493J	SW TACT SOA-123HS
TS115	ES-394493J	SW TACT SOA-123HS
TS116	ES-394493J	SW TACT SOA-123HS
TS117	ES-394493J	SW TACT SOA-123HS
TS118	ES-770378C	SW TACT SOA-143HS [AC-600/603R/605K]
TS119	ES-394493J	SW TACT SOA-123HS
TS120	ES-394493J	SW TACT SOA-123HS
TS121	ES-770378C	SW TACT SOA-143HS [AC-600/603R/605K]
TS122	ES-394493J	SW TACT SOA-123HS
TS123	ES-394493J	SW TACT SOA-123HS
VR100	EV-429878N	VR ROTARY RK11K1140 L17.5A503
VR101	EV-408707J	VR ROTARY RK11K1140 SP W104 [AC-600/603R/605K]
VR102	EV-429717N	VR SLIDE RS1511D C.T.B103 [AC-600/603R/605K]

10. CD P.C. BOARD

Ref. No.	Part No.	Description
D260	ED-307572	D SILICON H 1SS131
D290	ED-511907	D SILICON 1N4002 100/1.0A
D291	ED-511907	D SILICON 1N4002 100/1.0A
D292	ED-511907	D SILICON 1N4002 100/1.0A
D293	ED-511907	D SILICON 1N4002 100/1.0A
D294	ED-511907	D SILICON 1N4002 100/1.0A
D310	ED-387919J	D ZENER H HZS6A1L
D311	ED-307572	D SILICON H 1SS131
D312	ED-307572	D SILICON H 1SS131
D313	ED-307572	D SILICON H 1SS131
FL320	EH-382267J	FILTER EMI FBA04HA600VS-00 [AC-605K[U5,Y6,U8]]
IC200	EI-429718J	IC CXA1782BQ
IC240	EI-429720J	IC CXD2508AQ
IC260	EI-428194J	IC NJM4558DD
IC290	EI-770366C	IC KA9258D
IC310	EI-419334J	IC BA6247
IC320	EI-770315C	IC LC7872E [AC-605K]
IC321	EI-770316C	IC LC32464P-80 [AC-605K]
J240	EJ-394490J	SOCKET OPTICAL GP1F32T
J320	EJ-770407C	PIN J HSP-241V1Y [AC-605K]
L240	EO-368617	COIL FIX 1 LAP02 F05 1R5K
R313	ER-382474J	R OMF H S10 FS 1/2W 1R2J
SW320	ES-770388C	SW SLIDE SK22D02-G5 [AC-605K]
TR200	ET-353899	TR 2SA1317 S,T,U
TR201	ET-353899	TR 2SA1317 S,T,U
TR202	ET-375986	TR DTC124TS
TR260	ET-354415	TR DTA144ES
TR261	ET-360399	TR DTC114TS
TR262	ET-360399	TR DTC114TS
TR290	ET-388338J	TR 2SB1425 S,E
TR291	ET-368786	TR DTC143ZS T05
TR292	ET-388338J	TR 2SB1425 S,E
TR311	ET-397160J	TR 2SC3330 R,S,T,U,V
TR312	ET-375986	TR DTC124TS
TR320	ET-353899	TR 2SA1317 S,T,U [AC-605K]
TR321	ET-397160J	TR 2SC3330 R,S,T,U,V [AC-605K]
VR200	EV-368024	R S-FIX H V6EK-PV3(1S)0.1W 103
X240	EI-770322C	OSC X'TAL HC-49/U 33868.8KHZ
X320	EI-770396C	OSC X'TAL HC-49/U 17.734475MHZ [AC-605K]
X321	EI-770397C	OSC X'TAL HC-49/U 14.31818MHZ [AC-605K]

11. MAIN VR P.C. BOARD

Ref. No.	Part No.	Description
D400	ED-346528	D ZENER H HZ6C1L
IC400	EI-400756J	IC NJM4558L-B
IC401	EI-400756J	IC NJM4558L-B
TR400	ET-397160J	TR 2SC3330 R,S,T,U,V [AC-600/603R/605K]
TR401	ET-360399	TR DTC114TS
TR402	ET-360399	TR DTC114TS
VR400	EV-429738N	VR SPL RK16812MG L20 SPE.104X2 [AC-500/503R/505K]
VR401	EV-429739N	VR SPL RK16814MG L20 SPE.104X4 [AC-600/603R/605K]

12. DETECT P.C. BOARD

Ref. No.	Part No.	Description
D500	ED-390012J	D LED GL4800 INFRARED
P500	EJ-431103N	SOCKET 00 6216 005 100 5P
TR500	ET-390010J	TR PHOTO PT4800
1	SZ-770054C	HOLDER SENSER (CH)

13. VR LED P.C. BOARD

Ref. No.	Part No.	Description
D700	ED-429759J	D LED SEL6915A C,D ORANGE

14. JUNCTION P.C. BOARD

Ref. No.	Part No.	Description
P800	EJ-431104N	SOCKET 00 6216 005 000 5P
1	EW-770405C	CORD FFC AD P1.25 L=265 5P

15. TUNER/DECK P.C. BOARD

Ref. No.	Part No.	Description
C851	⚠ EC-422101J	C MMY V CUT MKTR40 104M 275AC
D1	ED-307572	D SILICON H 1SS131
D2	ED-391003J	D ZENER H HZS4C3
D3	ED-307572	D SILICON H 1SS131
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D351	ED-395862J	D ZENER H HZS7A1L [AC-600/603R/605K]
D352	ED-307572	D SILICON H 1SS131 [AC-600/603R/605K]
D353	ED-307572	D SILICON H 1SS131 [AC-600/603R/605K]
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131 [AC-600/603R/605K]
D501	ED-390651J	D ZENER H HZS7B2L
D502	ED-400171J	D ZENER H HZS6C2L
D801	ED-400171J	D ZENER H HZS6C2L
D802	ED-307572	D SILICON H 1SS131
F1-A	⚠ EF-393708J	FUSE 218 TIME 250V 1.60A [AC-500/503R/505K]
F1-B	⚠ EF-403289N	FUSE 218 TIME 250V 1.25A [AC-600/603R/605K]
F2-A	⚠ EF-393708J	FUSE 218 TIME 250V 1.60A [AC-505K]
F2-B	⚠ EF-403289N	FUSE 218 TIME 250V 1.25A [AC-605K]
FL101	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FL102	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FL151	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FL152	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
IB401	EH-429767J	COMP R RNMT-08-472J [AC-500/503R/505K]
IB402	EH-429765J	COMP R RNMT-12-472J [AC-600/603R/605K]
IC101	EI-429719J	IC CXA1897Q
IC351	EI-389264J	IC BA6209N [AC-600/603R/605K]
IC352	EI-389264J	IC BA6209N [AC-600/603R/605K]
IC401	EI-430845J	IC M38184M8-167FP TX1DECK-B1 [AC-600/603R/605K]
IC402	EI-430849J	IC M38173M6-354FP TX1DECK-A1 [AC-500/503R/505K]
IC501	EI-332259	IC TC4052BP
IC502	EI-400756J	IC NJM4558L-B
IC601	EI-400756J	IC NJM4558L-B [AC-505K/605K]
IC701	EI-400756J	IC NJM4558L-B
IC702	EI-400756J	IC NJM4558L-B
IC703	EI-400756J	IC NJM4558L-B
IC704	EI-400756J	IC NJM4558L-B
J6	EJ-770294C	SOCKET TKC-V24X-A1 24P
J501	EJ-770361C	PIN J T5854-AACG P 2P
J851	⚠ EJ-770385C	SOCKET INLET CCT2302-0381 2P
L1	EO-404430J	COIL FIX 1 SPT0203SA T26 101J
L801	EO-418875J	COIL FIX 1 LAP02TA T26 2R2J [EXCEPT [S,Y7]]
L851	⚠ EO-416686J	COIL LF LF-4D-102 102UH
TM800	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
TR1	ET-364060	TR DTC143ES
TR11	ET-770372C	TR FET 2SK372 GR,BL T05
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR21	ET-404320J	TR 2SC3331 T,U T05
TR22	ET-404320J	TR 2SC3331 T,U T05
TR23	ET-354364	TR DTC143TS
TR24	ET-397160J	TR 2SC3330 R,S,T,U,V
TR25	ET-366168	TR 2SD1292 Q,R
TR26	ET-397160J	TR 2SC3330 R,S,T,U,V
TR27	ET-354415	TR DTA144ES
TR28	ET-354414	TR DTC144ES
TR29	ET-397160J	TR 2SC3330 R,S,T,U,V
TR51	ET-364060	TR DTC143ES
TR61	ET-770372C	TR FET 2SK372 GR,BL T05
TR62	ET-397160J	TR 2SC3330 R,S,T,U,V
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-405334J	TR DTA123JS T05
TR103	ET-354414	TR DTC144ES
TR141	ET-397160J	TR 2SC3330 R,S,T,U,V
TR151	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-397160J	TR 2SC3330 R,S,T,U,V
TR203	ET-405334J	TR DTA123JS T05
TR204	ET-397160J	TR 2SC3330 R,S,T,U,V
TR205	ET-405334J	TR DTA123JS T05
TR251	ET-397160J	TR 2SC3330 R,S,T,U,V
TR252	ET-397160J	TR 2SC3330 R,S,T,U,V
TR254	ET-397160J	TR 2SC3330 R,S,T,U,V
TR301	ET-353899	TR 2SA1317 S,T,U
TR302	ET-354414	TR DTC144ES
TR303	ET-353899	TR 2SA1317 S,T,U
TR304	ET-354414	TR DTC144ES
TR305	ET-388338J	TR 2SB1425 S,E
TR306	ET-368786	TR DTC143ZS T05
TR307	ET-388338J	TR 2SB1425 S,E
TR308	ET-368786	TR DTC143ZS T05
TR309	ET-388338J	TR 2SB1425 S,E
TR310	ET-354365	TR DTC114YS
TR311	ET-388338J	TR 2SB1425 S,E
TR312	ET-388338J	TR 2SB1425 S,E
TR313	ET-354365	TR DTC114YS
TR314	ET-354415	TR DTA144ES
TR315	ET-368786	TR DTC143ZS T05
TR321	ET-397160J	TR 2SC3330 R,S,T,U,V
TR322	ET-397160J	TR 2SC3330 R,S,T,U,V
TR351	ET-770401C	TR 2SD1055 Q,R [AC-600/603R/605K]
TR401	ET-354414	TR DTC144ES
TR402	ET-354414	TR DTC144ES
TR403	ET-354414	TR DTC144ES
TR404	ET-354414	TR DTC144ES
TR405	ET-354414	TR DTC144ES
TR406	ET-354414	TR DTC144ES
TR407	ET-354414	TR DTC144ES
TR408	ET-354414	TR DTC144ES
TR409	ET-354365	TR DTC114YS [AC-600/603R/605K]
TR701	ET-360399	TR DTC114TS
TR702	ET-360399	TR DTC114TS
TR703	ET-360399	TR DTC114TS
TR704	ET-360399	TR DTC114TS
TR705	ET-360399	TR DTC114TS
TR706	ET-360399	TR DTC114TS

Ref. No.	Part No.	Description
TR707	ET-360399	TR DTC114TS
TR708	ET-360399	TR DTC114TS
TR709	ET-360399	TR DTC114TS
TR710	ET-360399	TR DTC114TS
TR751	ET-360399	TR DTC114TS
TR752	ET-360399	TR DTC114TS
TR753	ET-360399	TR DTC114TS
TR754	ET-360399	TR DTC114TS
TR755	ET-360399	TR DTC114TS
TR801	ET-337759	TR FET 2SK246 GR [AC-503R/603R]
TR802	ET-397160J	TR 2SC3330 R,S,T,U,V
TR803	ET-397160J	TR 2SC3330 R,S,T,U,V
TR804	ET-354094	TR DTC144WS
TR805	ET-354370	TR DTA124ES
TR806	ET-360399	TR DTC114TS
TR807	ET-360399	TR DTC114TS
TS800	ES-362883	SW TACT SKHHLM
TU800-A	EE-429721N	TUNER TFCB3E512A FM/MW/LW [B,E]
TU800-B	EE-429723N	TUNER TFCB1U512A FM/AM [S,U5,Y6,U8]
TU800-C	EE-429724N	TUNER TFCB1S512A FM/MW/SW [Y7]
VR301	EV-440239J	R S-FIX V T05EVNDCAA03 0.1W222
VR302	EV-403988J	R S-FIX V T05EVNDCAA03 0.1W102
VR303	EV-440239J	R S-FIX V T05EVNDCAA03 0.1W222
VR304	EV-403988J	R S-FIX V T05EVNDCAA03 0.1W102
X401	EI-405327J	OSC CE CST6.00MGW 6.000MHZ

16. CD-FLD P.C. BOARD

Ref. No.	Part No.	Description
D901	ED-307572	D SILICON H 1SS131
IB901	EH-422066J	COMP R RGLE8T 473J
IC901	EI-419341J	IC MN12510F
IN901	EM-429736N	IND FL 6-ST-35GK CHARACTER
TS901	ES-394493J	SW TACT SOA-123HS
TS902	ES-394493J	SW TACT SOA-123HS
TS903	ES-394493J	SW TACT SOA-123HS
X901	EI-396490J	OSC CE CST4.00MGW-TF01 T05

17. BIAS OSC P.C. BOARD

Ref. No.	Part No.	Description
T1	EO-770297C	COIL OSC 1 C1040

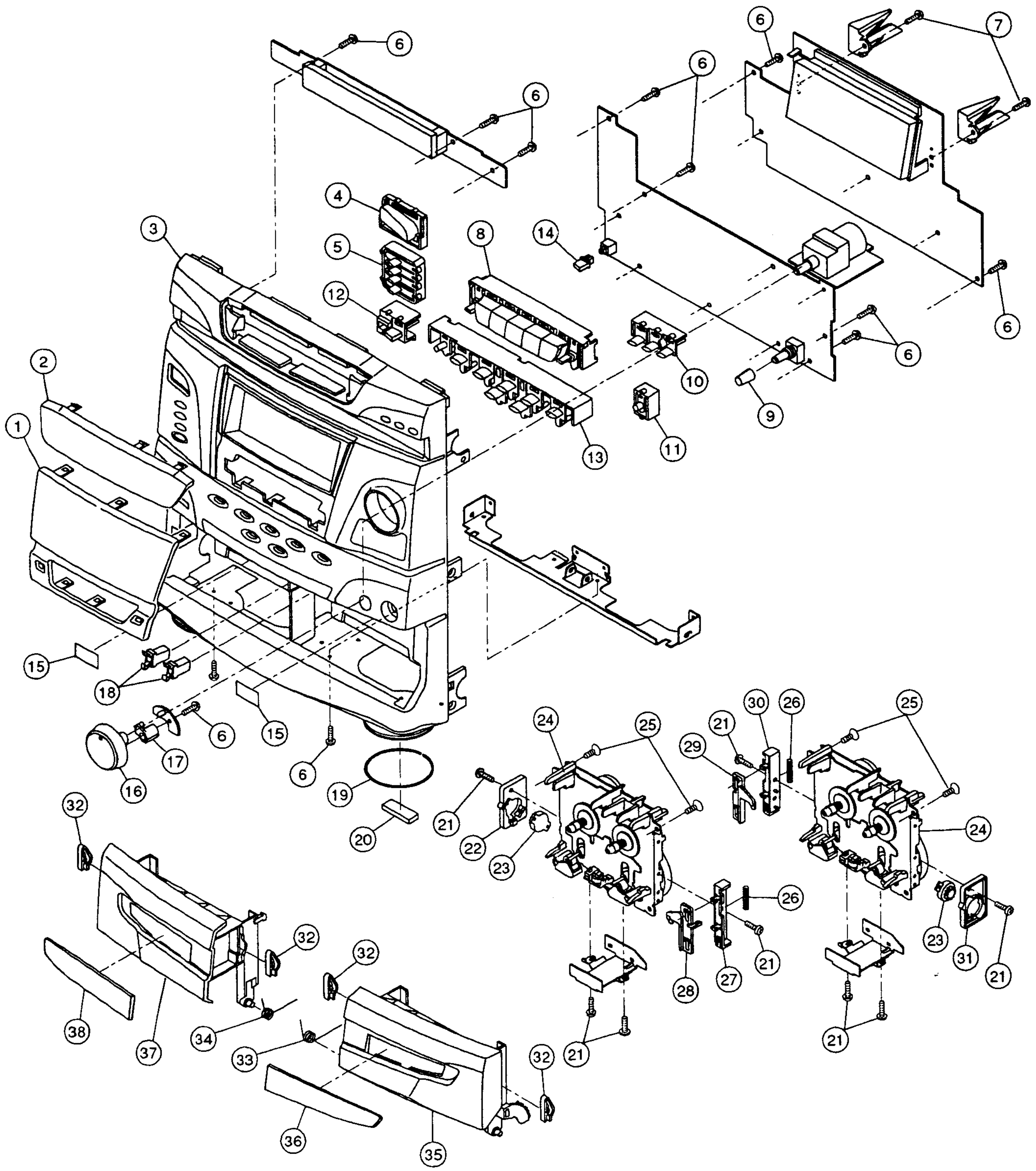
18. FRONT PANEL ASSEMBLY (AC-500/503R/505K)

Ref. No.	Part No.	Description
1	SE-770021C	WINDOW FLD(B) (CH)
2	SE-770020C	WINDOW FLD(A) (CH)
3-A	SP-770063C	PANEL FRONT AC-500 (CH)
3-B	SP-770064C	PANEL FRONT AC-503R (CH)
3-C	SP-770065C	PANEL FRONT AC-505K (CH)
4	SB-770022C	BUTTON POW (CH)
5	SB-770023C	BUTTON TIMER (CH)
6	ZS-394414J	BT BID30X08STL BZN
7	ZS-331875	PT BR30X12STL CMT
8	SB-429136J	BUTTON OP
9	SK-770043C	KNOB MIC (CH)
10	SB-770033C	BUTTON DISK (CH)
11	SB-770024C	BUTTON KARAOKE (CH) [AC-505K]
12	SB-770025C	BUTTON DOLBY (CH)
13	SB-770026C	BUTTON SELECTOR (CH)
14	SB-770027C	BUTTON SURROUND (CH)
15	SE-770069C	REFLECTOR (CH)
16	SK-770042C	KNOB VOLUME (CH)
17	SE-770041C	LENS VOLUME (CH)
18	SZ-418537J	LATCH 29K0
19	SZ-770070C	RING FOOT (CH)
20	SA-770071C	CUSHION FOOT (CH)
21	ZS-370834	BID26X05STL BZN
22	MZ-770006C	HOLDER DAMPER(L) (CH)
23	MZ-770362C	DUMPER DA-06W/W(105)
24-A	BB-429731N	MECHA CMAL2Z047A(PB) (TAPE I)
24-B	BB-429730N	MECHA CMAL2Z048A(R/P) (TAPE II)
25	ZS-376875	BT CTS30X08STL BNI
26	ZG-770005C	SP PUSH INTERLOCK (CH)
27	MZ-770003C	PLATE INTERLOCK(L) (CH)
28	ML-770001C	LEVER INTERLOCK(L) (CH)
29	ML-770002C	LEVER INTERLOCK(R) (CH)
30	MZ-770004C	PLATE INTERLOCK(R) (CH)
31	MZ-770007C	HOLDER DAMPER(R) (CH)
32	ZG-770058C	SP PLATE CASSETTE (CH)
33	ZG-770030C	SP TORSION EJECT(R) (CH)
34	ZG-770029C	SP TORSION EJECT(L) (CH)
35	SP-770057C	LID PANEL(R) (CH)
36	SE-770059C	WINDOW LID(R) (CH)
37	SP-770060C	LID PANEL(L) (CH)
38	SE-770062C	WINDOW LID(L) (CH)

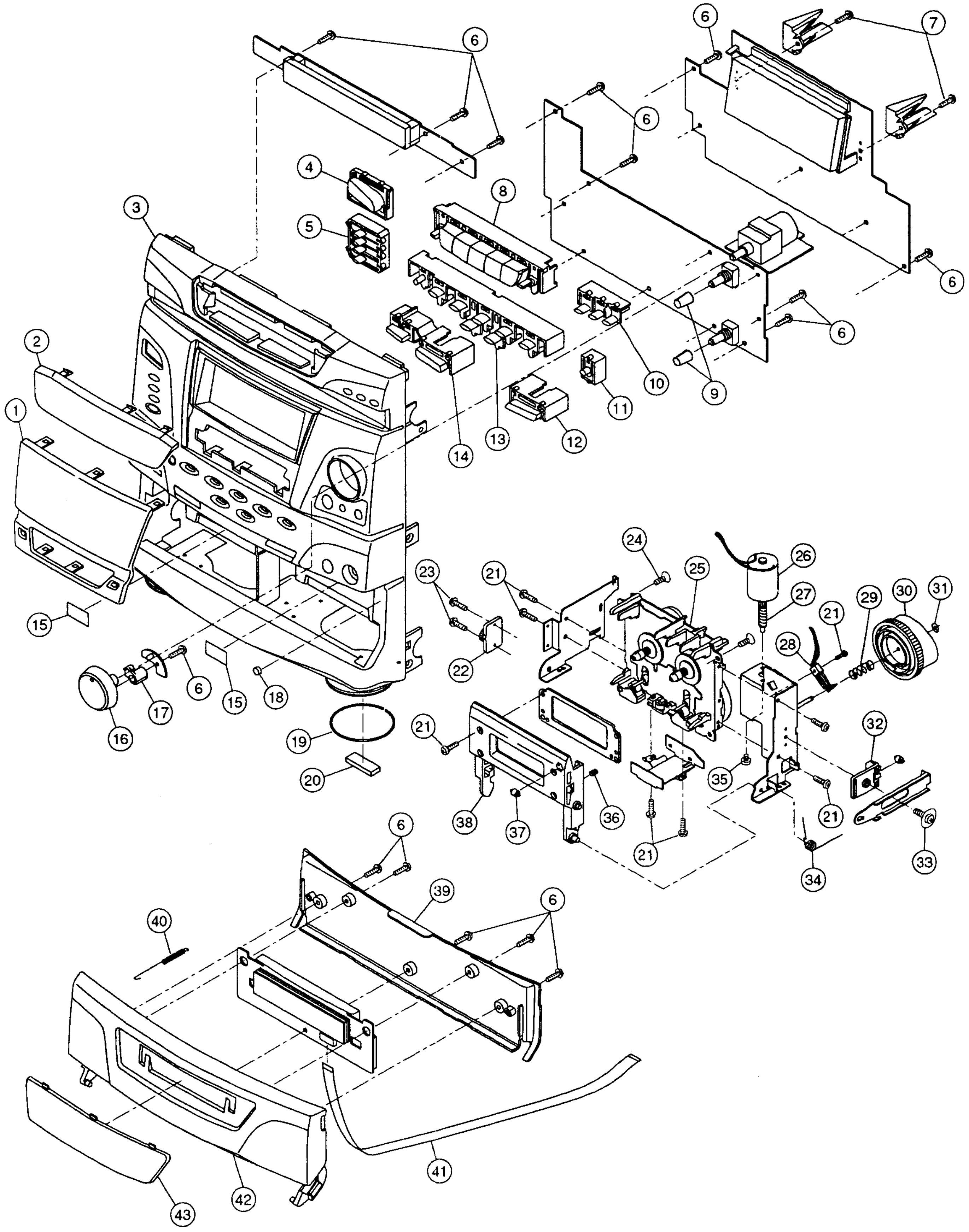
NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

FRONT PANEL ASSEMBLY (AC-500/503R/505K)



FRONT PANEL ASSEMBLY (AC-600/603R/605K)



19. FRONT PANEL ASSEMBLY (AC-600/603R/605K)

Ref. No.	Part No.	Description
1	SE-770021C	WINDOW FLD(B) (CH)
2	SE-770020C	WINDOW FLD(A) (CH)
3-A	SP-770066C	PANEL FRONT AC-600 (CH)
3-B	SP-770067C	PANEL FRONT AC-603R (CH)
3-C	SP-770068C	PANEL FRONT AC-605K (CH)
4	SB-770022C	BUTTON POW (CH)
5	SB-770023C	BUTTON TIMER (CH)
6	ZS-394414J	BT BID30X08STL BZN
7	ZS-331875	PT BR30X12STL CMT
8	SB-429136J	BUTTON OP
9	SK-770043C	KNOB MIC (CH)
10	SB-770033C	BUTTON DISK (CH)
11	SB-770024C	BUTTON KARAOKE (CH) [AC-605K]
12	SB-770100C	BUTTON EJECT(R) (CH)
13	SB-770026C	BUTTON SELECTOR (CH)
14	SB-770099C	BUTTON EJECT(L) (CH)
15	SE-770069C	REFLECTOR (CH)
16	SK-770042C	KNOB VOLUME (CH)
17	SE-770041C	LENS VOLUME (CH)
18	SZ-770072C	CUSHION DOOR (CH)
19	SZ-770070C	RING FOOT (CH)
20	SA-770071C	CUSHION FOOT (CH)
21	ZS-370834	BID26X05STL BZN
22	MZ-408740J	DUMPER 2G50-C
23	ZS-357727	ST PAN20X05STL CMT
24	ZS-376875	BT CTS30X08STL BNI
25-A	BB-429731N	MECHA CMAL2Z047A(PB) (TAPE I)
25-B	BB-429730N	MECHA CMAL2Z048A(R/P) (TAPE II)
26	BM-374198	MOTOR RF-370CA-15370
27	MZ-429135J	WORM
28	ES-408755M	SW LEAF LSA-2127E
29	ZG-770010C	SP PUSH CAM GEAR (CH)
30	MZ-770011C	CAM GEAR EJECT (CH)
31	ZW-377824	SLIT W26X050X025LMN
32	MZ-770016C	PLATE EJECT (CH)
33	ZS-770018C	SCREW GRADUATED(1) (CH)
34	ZG-770096C	SP TORSION EJECT (CH)
35	ZS-432674	PAN30X03STL CMT
36	ZG-770013C	SP PUSH CASSETTE (CH)
37	MR-407755M	ROLLER (SG)
38	MZ-770012C	HOLDER CASSETTE (CH)
39	SP-770103C	COVER DOOR (CH)
40	ZG-770104C	SP PULL DOOR (CH)
41	EW-770355C	CORD FFCAD P1.25 L320 10P
42	SP-770101C	DOOR (CH)
43	SE-770102C	WINDOW DOOR (CH)

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

20. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SM-770094C	NAME PLATE AKAI (CH)
2	SP-770044C	PANEL TRAY (CH)
3	ZS-394412J	BT BID30X08STL BZN PROJECTION
4	SP-429405N	COVER UPPER (SG)
5	ZS-394414J	BT BID30X08STL BZN
6-A	SP-429396N	PANEL REAR AC-500(E,B) (SG)
6-B	SP-429397N	PANEL REAR AC-500(S) (SG)
6-C	SP-429395N	PANEL REAR AC-503R(E) (SG)
6-D	SP-429398N	PANEL REAR AC-505K(U5,Y6) (SG)
6-E	SP-429400N	PANEL REAR AC-505K(U8,Y7) (SG)
6-F	SP-429403N	PANEL REAR AC-600(E,B) (SG)
6-G	SP-429402N	PANEL REAR AC-600(S) (SG)
6-H	SP-429399N	PANEL REAR AC-603R(E) (SG)
6-I	SP-429469N	PANEL REAR AC-605K(U5,Y6) (SG)
6-J	SP-429470N	PANEL REAR AC-605K(U8,Y7) (SG)
7	ZS-393644N	ST BID30X08STL BZN PROJECT(SG) [AC-505K/605K]
8	⚠ ES-418650J	SW SELECT ESE-37311 [AC-505K/605K]
9	ZS-346742	ST PAN40X08STL CMT CUP
10-A	⚠ BT-770379C	TRANS POW C1040 EV [AC-500[E,B]/503R]
10-B	⚠ BT-770380C	TRANS POW C1040 S [AC-500[S]]
10-C	⚠ BT-770381C	TRANS POW C1040 U [AC-505K]
10-D	⚠ BT-770382C	TRANS POW C1041 EV [AC-600[E,B]/603R]
10-E	⚠ BT-770383C	TRANS POW C1041 S [AC-600[S]]
10-F	⚠ BT-770384C	TRANS POW C1041 U [AC-605K]
11	SA-770034C	CUSHION FOOT REAR (CH)
12	ZS-395789J	BT BID30X16STL BZN
13	ZS-376875	BT CTS30X08STL BNI
14-A	⚠ EW-412522J1	AC CORD200S KP419CKS15F B V [E,U5,Y7,U8]
14-B	⚠ EW-419250M	AC CORD 200 S SA-5SA-6 S [S]
14-C	⚠ EW-419248M	AC CORD 200S SE-5 SE-6 B B [B,Y6]

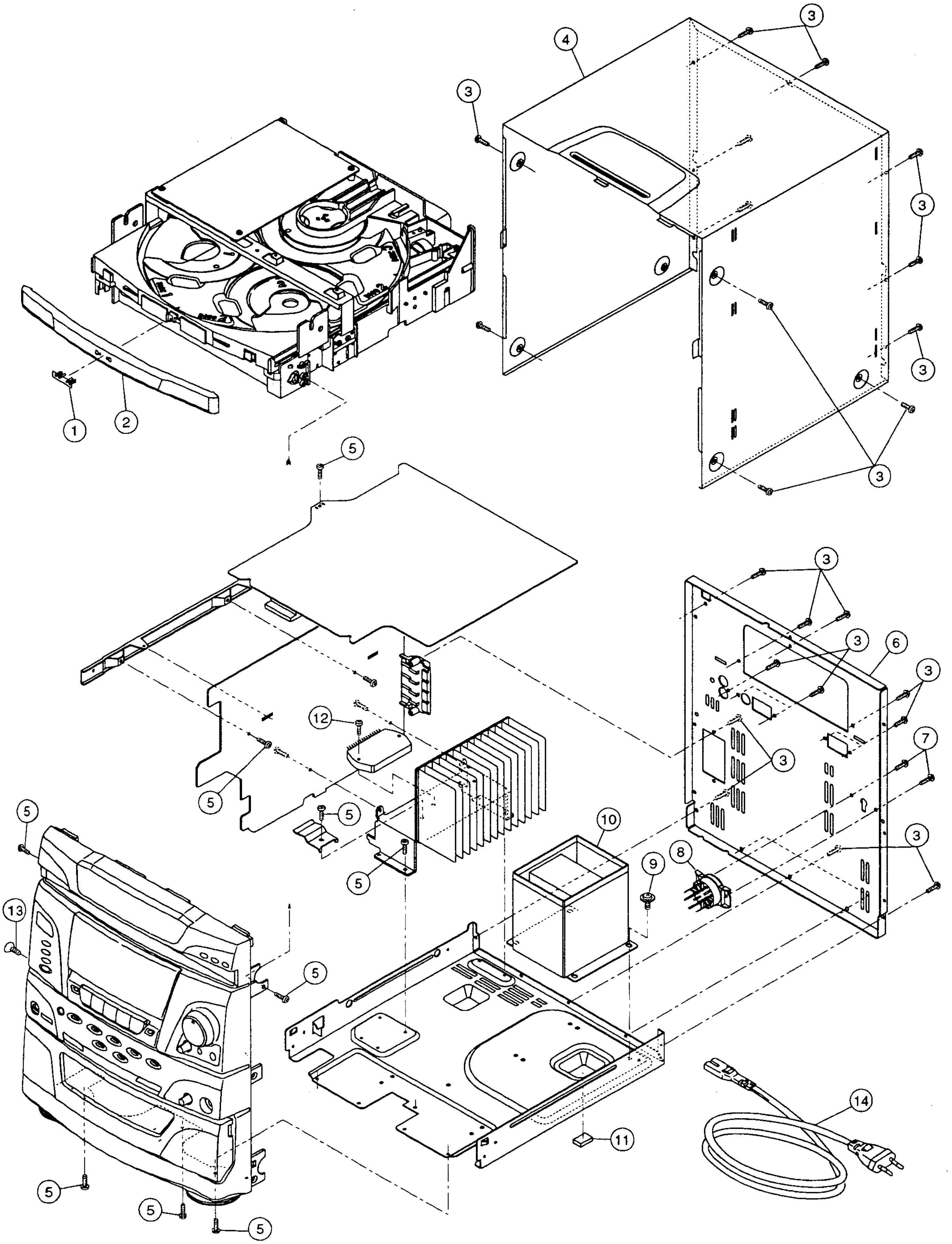
NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

21. ACCESSARY

Ref. No.	Part No.	Description
1-A	AX-429824J	REMOCON RC-S500 [AC-500/503R/505K]
1-B	AX-429823J	REMOCON RC-S600 [AC-600/603R/605K]
2	AX-415039M	ANT LOOP WAU0990-0172M
3	EE-396107M	ANT WIRE FMA3063
4	EJ-394417J	SOCKET COAX HXC 0526-01-010

FINAL ASSEMBLY BLOCK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6-2. SPEAKER SYSTEMS

1. Model SR-500

Ref. No.	Part No.	Description
1	1550-658	SPEAKER TWEETER (FLAT PIEZO)
2	1550-657	SPEAKER MIDRANGE OT-57-248
3	1550-656	SPEAKER WOOFER ATM130ARX 130-70/6
4	3917-566	FRONT GRILL (L)
5	3917-565	FRONT GRILL (R)
6	7725-017	BADGE AKAI
7	6654-188	CATCHER (RUBBER BUSH)

2. Model SR-600

Ref. No.	Part No.	Description
1	SS 734020K	SPEAKER CT-40F02 40MM [PIEZO-TWEETER]
2	SS 734019K	SPEAKER CT-57F12 57MM [MID-RANGE]
3-A	SS 734017K	SPEAKER TAU-13W03006 WO 135MM [WOOFER] [X4]
3-B	SS 734018K	SPEAKER TAU-13W03007 WO 135MM [WOOFER] [Y1]
4	TS 734021K	NET FRAME (L) SR-600
5	TS 734022K	NET FRAME (R) SR-600
6	SM 734023K	BUDGE AKAI
7	EJ 734024K	TERMINAL SPEAKER SR-600
8	TS 734025K	RUBBER HOOK

INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AX415039M	21-2	ED307572	5-D281	ED394708J	5-D1	EH422066J	8-IB1
AX429823J	21-1-B	ED307572	5-D282	ED394708J	6-D1	EH422066J	16-IB901
AX429824J	21-1-A	ED307572	5-D283	ED395862J	5-D111	EH429765J	15-IB402
BAC1040C060A	4-1-A	ED307572	5-D284	ED395862J	15-D351	EH429767J	8-IB2
BAC1040C060B	4-1-B	ED307572	5-D285	ED400171J	5-D113	EH429767J	15-IB401
BAC1040C070A	4-2-A	ED307572	5-D286	ED400171J	5-D133	EH429768J	7-IB801
BAC1040C070B	4-2-B	ED307572	5-D287	ED400171J	5-D301	EI200573	5-IC503
BAC1040C070C	4-2-C	ED307572	5-D288	ED400171J	5-D302	EI200573	5-IC504
BAC1040C070D	4-2-D	ED307572	5-D303	ED400171J	15-D502	EI200573	5-IC603
BAC1040C070E	4-2-E	ED307572	5-D304	ED400171J	15-D801	EI200573	6-IC503
BAC1040C070F	4-2-F	ED307572	5-D305	ED407083J	5-D112	EI200573	6-IC504
BAC1040C070G	4-2-G	ED307572	5-D601	ED407083J	5-D119	EI200573	6-IC603
BAC1040C070H	4-2-H	ED307572	5-D602	ED407083J	6-D116	EI332259	5-IC602
BAC1040C070J	4-2-I	ED307572	5-D603	ED422073J	5-D122	EI332259	6-IC602
BAC1040C070K	4-2-J	ED307572	6-D10	ED422073J	6-D122	EI332259	15-IC501
BAC1040C080A	4-3-A	ED307572	6-D11	ED425401J	6-D104	EI349591	6-IC402
BAC1040C080B	4-3-B	ED307572	6-D12	ED425401J	6-D111	EI389264J	15-IC351
BAC1040C080C	4-3-C	ED307572	6-D13	ED429758J	9-D111	EI389264J	15-IC352
BAC1040C080D	4-3-D	ED307572	6-D14	ED429758J	9-D112	EI394709J	5-IC1
BAC1040C080E	4-3-E	ED307572	6-D102	ED429758J	9-D113	EI396490J	7-X801
BAC1040C080F	4-3-F	ED307572	6-D113	ED429758J	9-D114	EI396490J	8-X4
BAC1040C080G	4-3-G	ED307572	6-D114	ED429758J	9-D115	EI396490J	16-X901
BAC1040C080H	4-3-H	ED307572	6-D115	ED429758J	9-D116	EI400756J	5-IC505
BAC1040C080J	4-3-I	ED307572	6-D121	ED429758J	9-D117	EI400756J	5-IC506
BAC1040C080K	4-3-J	ED307572	6-D303	ED429759J	9-D100	EI400756J	5-IC605
BAC1041C060A	4-1-C	ED307572	6-D304	ED429759J	9-D101	EI400756J	6-IC401
BAC1041C060B	4-1-D	ED307572	6-D305	ED429759J	9-D102	EI400756J	6-IC505
BB429714N	2-29	ED307572	6-D441	ED429759J	9-D103	EI400756J	6-IC506
BB429730N	18-24-B	ED307572	6-D601	ED429759J	9-D104	EI400756J	6-IC605
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ABBREVIATIONS (TUNER)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Contro	IMEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD	FLuorescent Display	Q.D	Quadrature Detector
FM	Frequency Modulation	R ch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	Hight	RF	Radio Frequency
HPF	Hight Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emiting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Cscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	crysTAL

ABBREVIATIONS (AMPLIFIER)

ABBREVIATIN	EXPLANATION	ABBREVIATION	EXPLANATION
A	Analog	MC	Moving Coil
AC	Alternating Current	MM	Moving Magnet
AMP	AMPlifier	PCB	Printed Circuit Board
CD	Compact Disc	R	Right
COM	COMmon	REG	REGulator
D	Digital	REC	RECord
D/A	Digital to Analog	TR	TRansistor
DAC	Digital to Analog Converter	SW	SWitch
DAT	Digital Audio Tape recorder	V.AMP	Voltage AMPlifier
DC	Direct Current	V.DISC	Video DISC
GND	GrouND	VR	Variable Resistance
L	Left	VTR	Video Tape Recorder
LED	Light Emitting Diode		

AKAI

MODEL AC-500, 503R, 505K
MODEL AC-600, 603R, 605K

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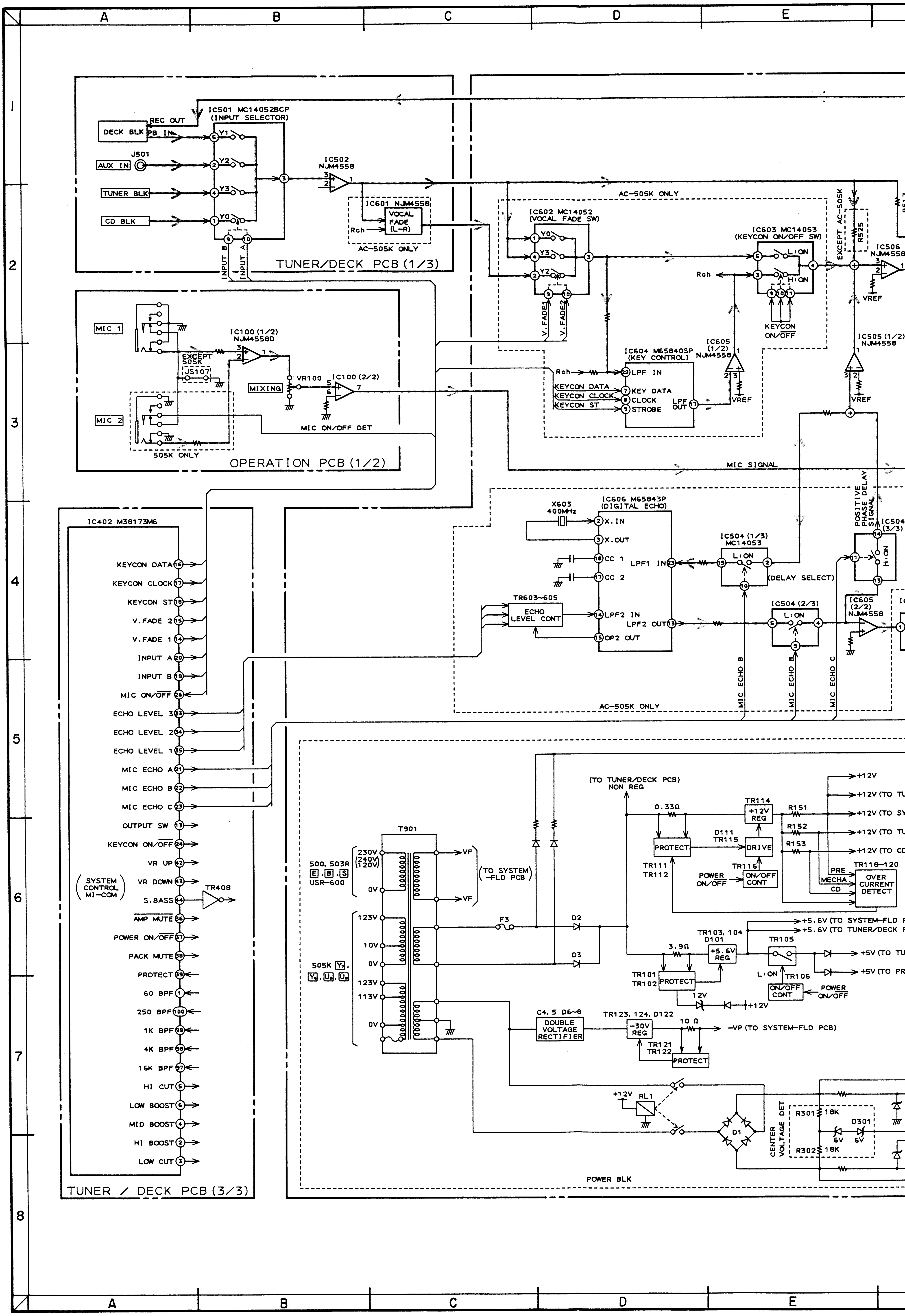
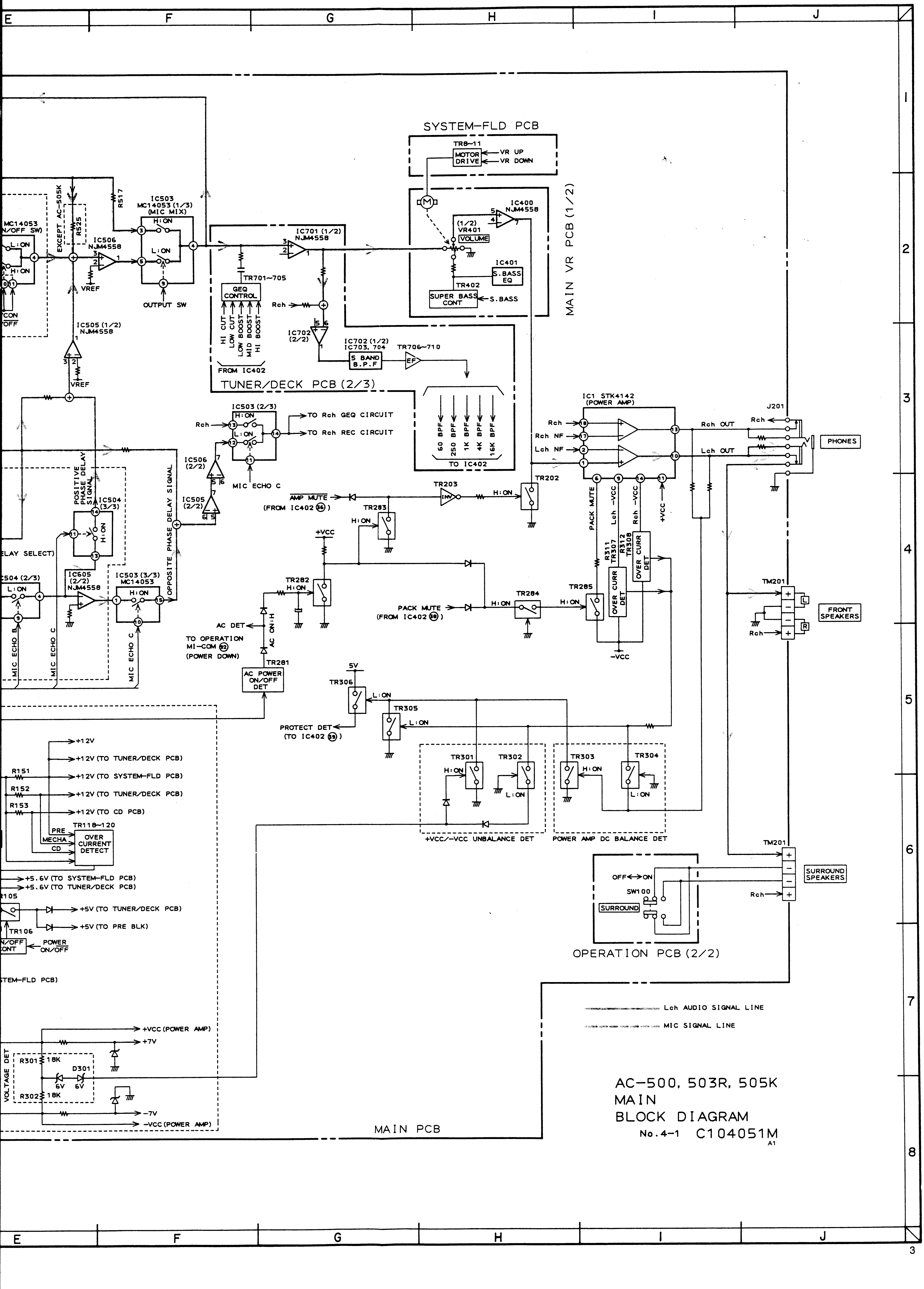
3. TUNER/DECK (1/2) (AC-500, 503R, 505K) 12
4. MAIN (1/2) (POWER SUPPLY & POWER AMP BLOCK) (AC-600, 603R, 605K) 14
5. TUNER/DECK (1/2) (AC-600, 600R, 605K) 16
6. TUNER/DECK (2/2) & MAIN (2/2) (SOUND EFFECT BLOCK) 18
7. SYSTEM-FLD & OPERATION 21
8. CD 22
9. SR-500, 600 24

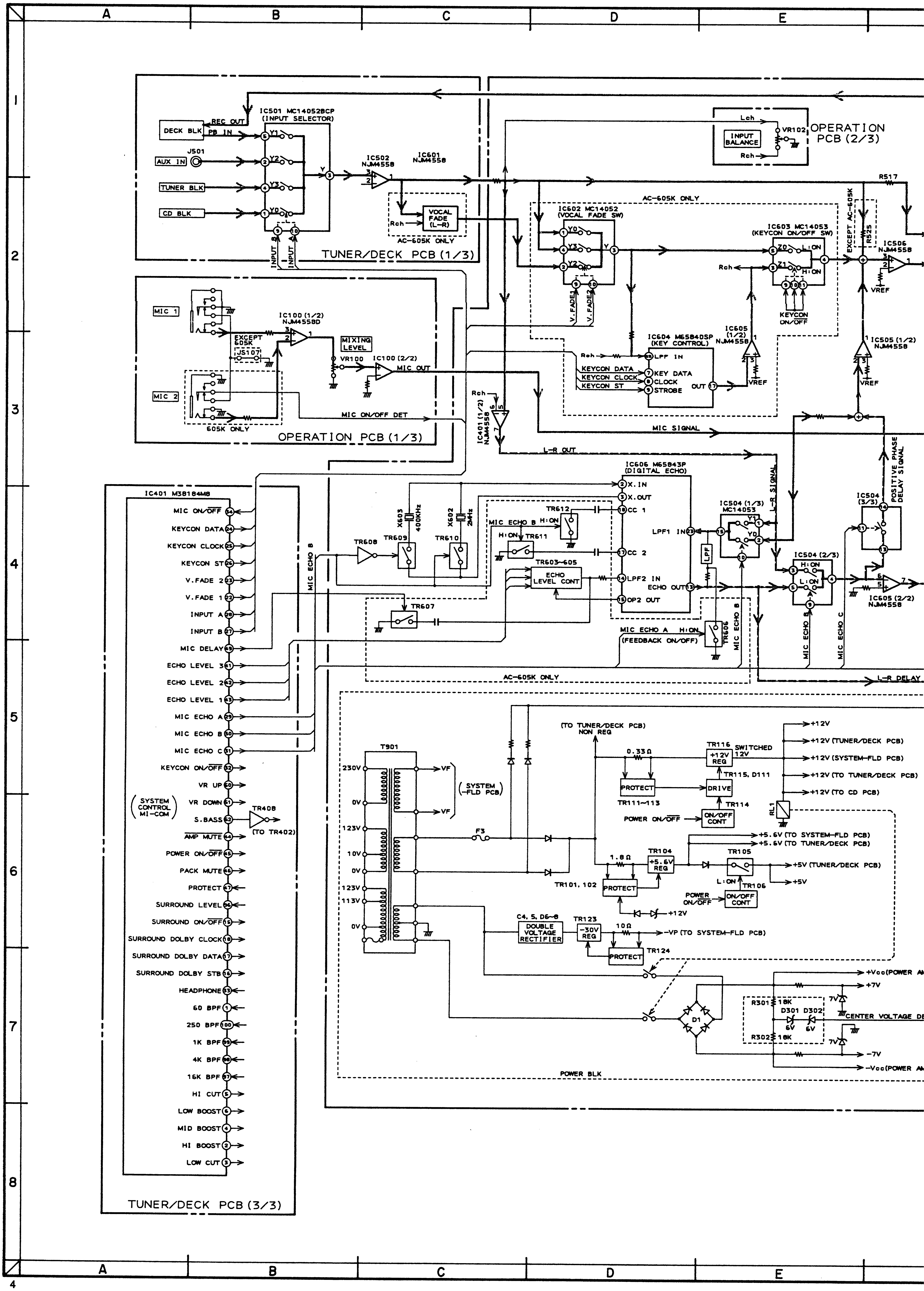
III. INFORMATION OF ICs 24

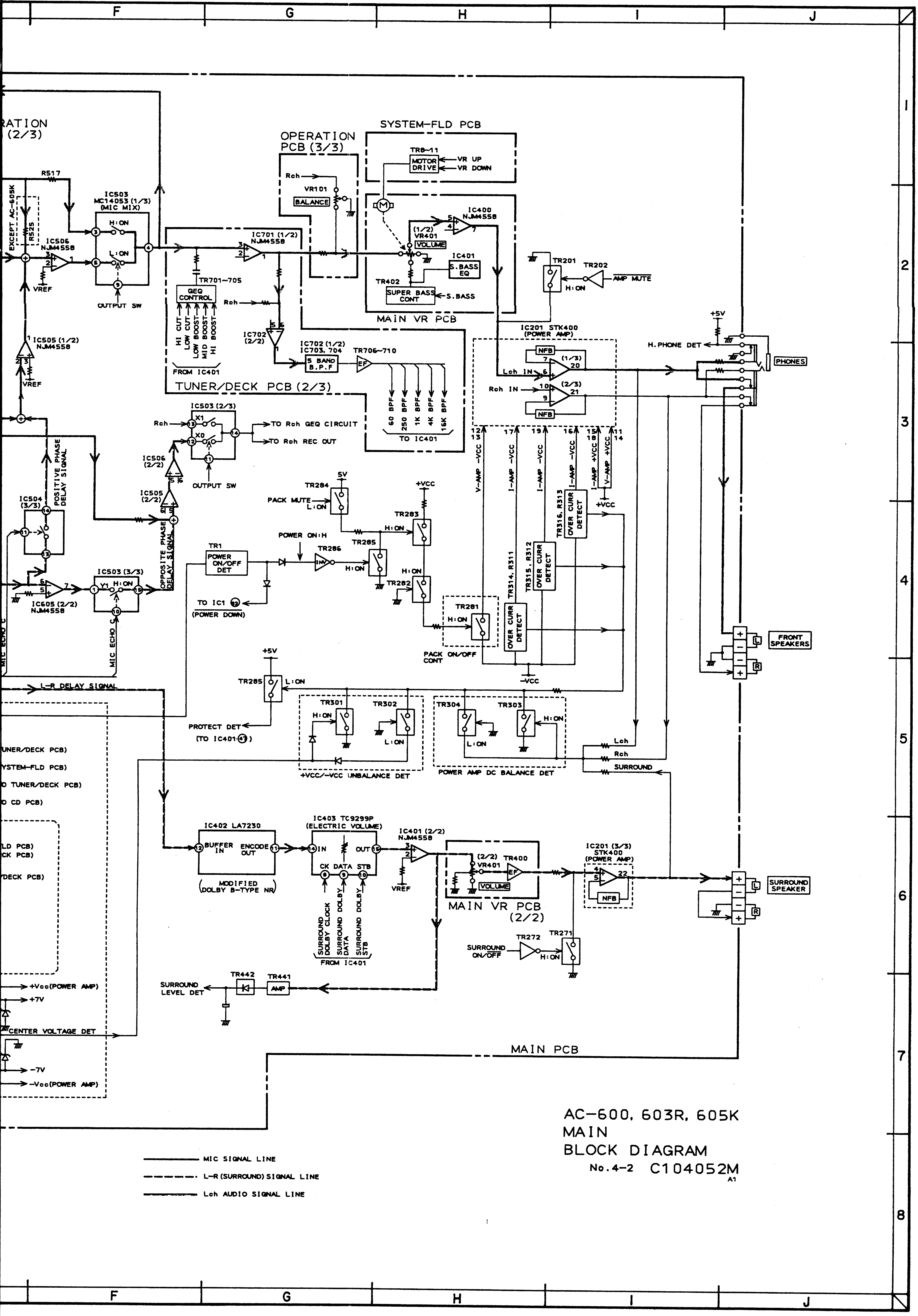
Use these schematic diagrams and PC boards together with the provided service manual.


A
B
C
D
E
1
2
3
4
5
6
7
8
IC501 MC14052BCP
(INPUT SELECTOR)
REC OUT
DECK BLK
PB IN
J501
AUX IN
TUNER BLK
CD BLK
Y1
Y2
Y3
Y0
INPUT B
INPUT A
IC502
NJM4558
IC601 NJM4558
VOCAL FADE (L−R)
Rch
AC−505K ONLY
TUNER/DECK PCB (1/3)
AC−505K ONLY
IC602 MC14052
(VOCAL FADE SW)
V.FADE1
V.FADE2
IC603 MC14053
(KEYCON ON/OFF SW)
L:ON
H:ON
Rch
KEYCON ON/OFF
EXCEPT AC−505K
R525
IC506
NJM4558
VREF
IC505 (1/2)
NJM4558
IC604 M65840SP
(KEY CONTROL)
LPF IN
KEY DATA
CLOCK
STROBE
LPF OUT
KEYCON DATA
KEYCON CLOCK
KEYCON ST
IC605
(1/2)
NJM4558
VREF
MIC 1
MIC 2
IC100 (1/2)
NJM4558D
EXCEPT 505K
JS107
505K ONLY
MIXING
VR100
IC100 (2/2)
MIC ON/OFF DET
OPERATION PCB (1/2)
MIC SIGNAL
POSITIVE PHASE DELAY SIGNAL
IC402 M38173M6
KEYCON DATA
KEYCON CLOCK
KEYCON ST
V.FADE 2
V.FADE 1
INPUT A
INPUT B
MIC ON/OFF
ECHO LEVEL 3
ECHO LEVEL 2
ECHO LEVEL 1
MIC ECHO A
MIC ECHO B
MIC ECHO C
OUTPUT SW
KEYCON ON/OFF
VR UP
VR DOWN
S.BASS
AMP MUTE
POWER ON/OFF
PACK MUTE
PROTECT
60 BPF
250 BPF
1K BPF
4K BPF
16K BPF
HI CUT
LOW BOOST
MID BOOST
HI BOOST
LOW CUT
(SYSTEM CONTROL MI−COM)
TR408
TUNER / DECK PCB (3/3)
X603
400MHz
IC606 M65843P
(DIGITAL ECHO)
X. IN
X. OUT
CC 1
CC 2
LPF1 IN
LPF2 IN
LPF2 OUT
OP2 OUT
TR603−605
ECHO LEVEL CONT
IC504 (1/3)
MC14053
L:ON
(DELAY SELECT)
IC504 (2/3)
L:ON
IC504 (3/3)
H:ON
IC605 (2/2)
NJM4558
MIC ECHO B
MIC ECHO B
MIC ECHO C
AC−505K ONLY
(TO TUNER/DECK PCB)
NON REG
T901
500, 503R
E . B . S
USR−600
230V
(240V)
(120V)
0V
VF
VF
(TO SYSTEM −FLD PCB)
123V
10V
0V
123V
113V
0V
505K Y. U. U. U.
F3
D2
D3
0.33Ω
TR114
+12V REG
R151
R152
R153
PROTECT
D111
TR115
DRIVE
TR111
TR112
POWER ON/OFF
TR116
ON/OFF CONT
+12V
+12V (TO TU
+12V (TO SY
+12V (TO TU
+12V (TO CD
TR118−120
PRE
MECHA
CD
OVER CURRENT DETECT
+5.6V (TO SYSTEM−FLD P
+5.6V (TO TUNER/DECK P
TR103, 104
D101
3.9Ω
+5.6V REG
TR105
+5V (TO TU
+5V (TO PR
TR101
TR102
PROTECT
L:ON
TR106
ON/OFF CONT
POWER ON/OFF
12V
+12V
C4, 5 D6−8
DOUBLE VOLTAGE RECTIFIER
TR123, 124, D122
−30V REG
10 Ω
−VP (TO SYSTEM−FLD PCB)
TR121
TR122
PROTECT
+12V
RL1
D1
CENTER VOLTAGE DET
R301
18K
R302
18K
D301
6V
6V
POWER BLK

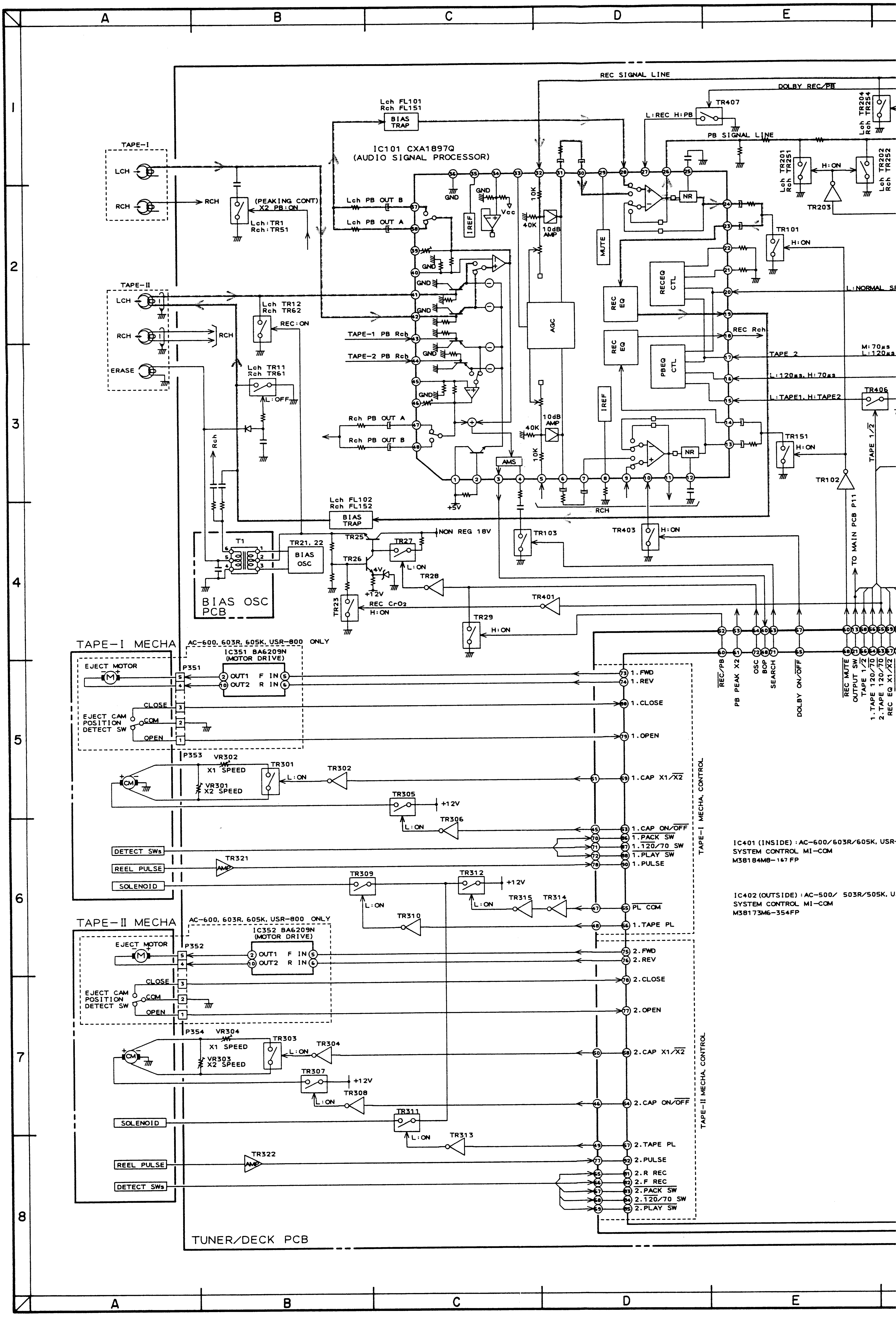

E
F
G
H
I
J
1
2
3
4
5
6
7
8
SYSTEM-FLD PCB
TR8~11
MOTOR DRIVE
VR UP
VR DOWN
IC400 NJM4558
(1/2) VR401
VOLUME
IC401
S.BASS EQ
TR402
SUPER BASS CONT
S.BASS
MAIN VR PCB (1/2)
IC503 MC14053 (1/3) (MIC MIX)
H:ON
L:ON
OUTPUT SW
R517
EXCEPT AC-505K
R525
MC14053
ON/OFF SW)
IC506 NJM4558
VREF
IC505 (1/2) NJM4558
IC701 (1/2) NJM4558
TR701~705
GEQ CONTROL
HI CUT
LOW CUT
LOW BOOST
MID BOOST
HI BOOST
FROM IC402
Rch
IC702 (2/2)
IC702 (1/2) IC703, 704
5 BAND B.P.F
TR706~710
EF
TUNER/DECK PCB (2/3)
60 BPF
250 BPF
1K BPF
4K BPF
16K BPF
TO IC402
IC503 (2/3)
TO Rch GEQ CIRCUIT
TO Rch REC CIRCUIT
MIC ECHO C
IC506 (2/2)
IC505 (2/2)
POSITIVE PHASE DELAY SIGNAL
IC504 (3/3)
OPPOSITE PHASE DELAY SIGNAL
ELAY SELECT)
C504 (2/3)
IC605 (2/2) NJM4558
IC503 (3/3) MC14053
MIC ECHO B
MIC ECHO C
IC1 STK4142 (POWER AMP)
Rch NF
Lch NF
Rch OUT
Lch OUT
J201
PHONES
TR202
TR203
INV
AMP MUTE
(FROM IC402 ㊱)
TR283
+VCC
TR282
PACK MUTE
Lch -VCC
Rch -VCC
R311 TR307
R312 TR308
OVER CURR DET
TR285
TR284
PACK MUTE
(FROM IC402 ㊳)
-VCC
AC DET
AC ON:H
TO OPERATION MI-COM ㊲
(POWER DOWN)
TR281
AC POWER ON/OFF DET
TM201
FRONT SPEAKERS
5V
TR306
TR305
PROTECT DET
(TO IC402 ㊴)
TR301
TR302
TR303
TR304
+VCC/-VCC UNBALANCE DET
POWER AMP DC BALANCE DET
SURROUND SPEAKERS
OFF↔ON
SW100
SURROUND
OPERATION PCB (2/2)
+12V
+12V (TO TUNER/DECK PCB)
+12V (TO SYSTEM-FLD PCB)
+12V (TO TUNER/DECK PCB)
+12V (TO CD PCB)
R151
R152
R153
TR118~120
PRE
MECHA
CD
OVER CURRENT DETECT
+5.6V (TO SYSTEM-FLD PCB)
+5.6V (TO TUNER/DECK PCB)
R105
+5V (TO TUNER/DECK PCB)
+5V (TO PRE BLK)
TR106
POWER ON/OFF
STEM-FLD PCB)
+VCC (POWER AMP)
+7V
VOLTAGE DET
R301 18K
D301
6V
R302 18K
-7V
-VCC (POWER AMP)
MAIN PCB
Lch AUDIO SIGNAL LINE
MIC SIGNAL LINE

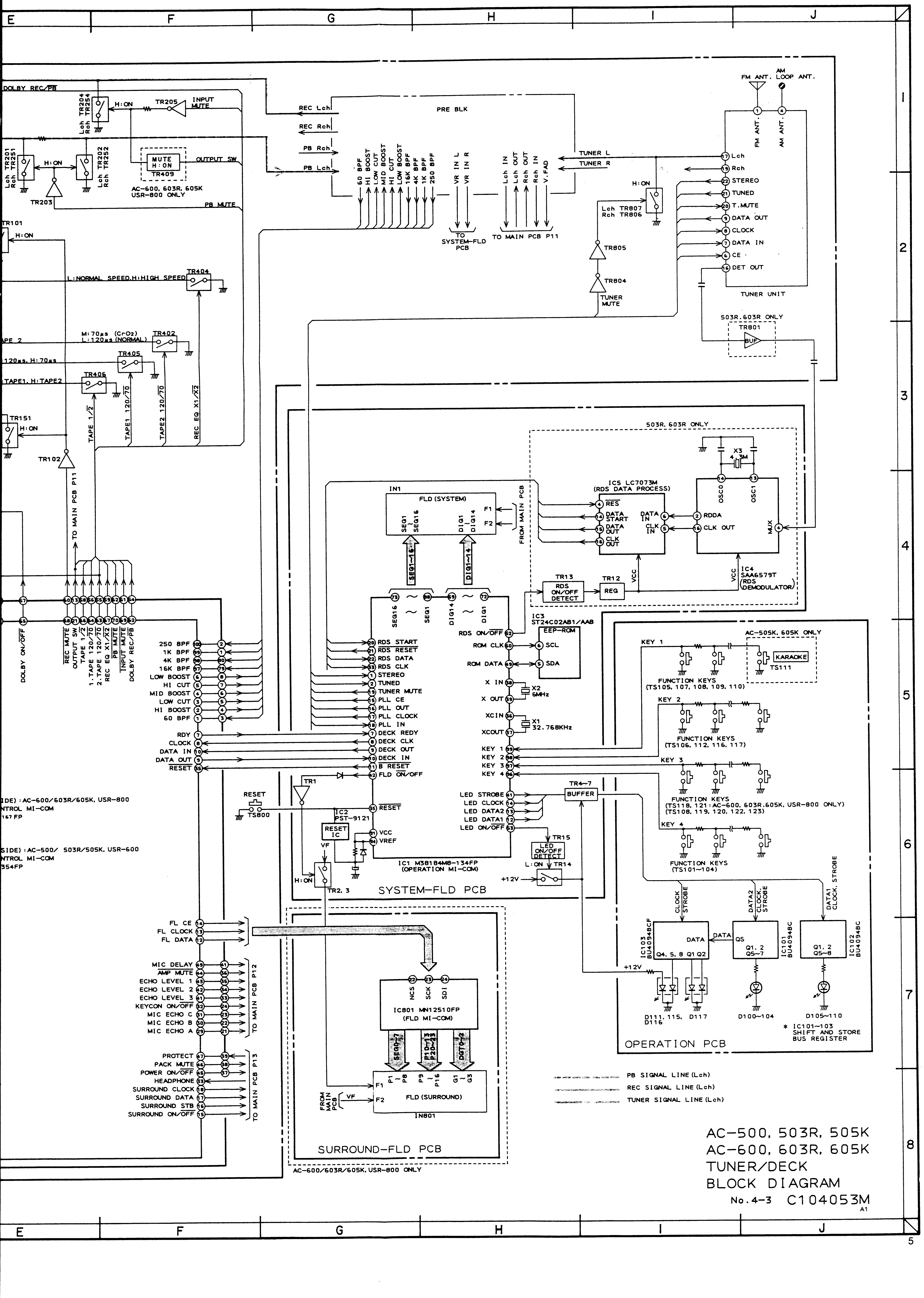
AC-500, 503R, 505K
MAIN
BLOCK DIAGRAM
No.4-1 C104051M
A1


A
B
C
D
E
1
2
3
4
5
6
7
8
IC501 MC14052BCP (INPUT SELECTOR)
DECK BLK
REC OUT
PB IN
J501
AUX IN
TUNER BLK
CD BLK
INPUT B
INPUT A
IC502 NJM4558
IC601 NJM4558
VOCAL FADE (L-R)
Rch
AC-605K ONLY
TUNER/DECK PCB (1/3)
OPERATION PCB (2/3)
INPUT BALANCE
VR102
Lch
R517
AC-605K ONLY
IC602 MC14052 (VOCAL FADE SW)
V.FADE1
V.FADE2
IC603 MC14053 (KEYCON ON/OFF SW)
L:ON
H:ON
KEYCON ON/OFF
EXCEPT AC-605K
R525
IC506 NJM4558
VREF
IC505 (1/2) NJM4558
IC604 M65840SP (KEY CONTROL)
IC605 (1/2) NJM4558
LPF IN
KEYCON DATA
KEYCON CLOCK
KEYCON ST
KEY DATA
CLOCK
STROBE
OUT
MIC 1
MIC 2
IC100 (1/2) NJM4558D
EXCEPT 605K
JS107
MIXING LEVEL
VR100
IC100 (2/2)
MIC OUT
605K ONLY
MIC ON/OFF DET
OPERATION PCB (1/3)
IC401 (1/2) NJM4558
L-R OUT
MIC SIGNAL
L-R SIGNAL
POSITIVE PHASE DELAY SIGNAL
IC606 M65843P (DIGITAL ECHO)
X.IN
X.OUT
CC 1
CC 2
LPF2 IN
OP2 OUT
LPF1 IN
ECHO OUT
X603 400KHz
X602 2MHz
TR608
TR609
TR610
TR612
MIC ECHO B
H:ON
TR611
TR603-605
ECHO LEVEL CONT
TR607
MIC ECHO A H:ON (FEEDBACK ON/OFF)
TR606
MIC ECHO B
IC504 (1/3) MC14053
LPF
IC504 (3/3)
IC504 (2/3)
IC605 (2/2) NJM4558
MIC ECHO C
L-R DELAY
AC-605K ONLY
IC401 M38184M8
MIC ON/OFF
KEYCON DATA
KEYCON CLOCK
KEYCON ST
V.FADE 2
V.FADE 1
INPUT A
INPUT B
MIC DELAY
ECHO LEVEL 3
ECHO LEVEL 2
ECHO LEVEL 1
MIC ECHO A
MIC ECHO B
MIC ECHO C
KEYCON ON/OFF
VR UP
VR DOWN
S.BASS
AMP MUTE
POWER ON/OFF
PACK MUTE
PROTECT
SURROUND LEVEL
SURROUND ON/OFF
SURROUND DOLBY CLOCK
SURROUND DOLBY DATA
SURROUND DOLBY STB
HEADPHONE
60 BPF
250 BPF
1K BPF
4K BPF
16K BPF
HI CUT
LOW BOOST
MID BOOST
HI BOOST
LOW CUT
(SYSTEM CONTROL MI-COM)
TR408
(TO TR402)
TUNER/DECK PCB (3/3)
T901
230V
0V
123V
10V
0V
123V
113V
0V
VF
(SYSTEM -FLD PCB)
F3
(TO TUNER/DECK PCB) NON REG
0.33Ω
PROTECT
TR111-113
TR116 +12V REG
SWITCHED 12V
DRIVE
TR115, D111
TR114
ON/OFF CONT
POWER ON/OFF
+12V
+12V (TUNER/DECK PCB)
+12V (SYSTEM-FLD PCB)
+12V (TO TUNER/DECK PCB)
+12V (TO CD PCB)
RL1
+5.6V (TO SYSTEM-FLD PCB)
+5.6V (TO TUNER/DECK PCB)
1.8Ω
TR104 +5.6V REG
TR105
+5V (TUNER/DECK PCB)
L:ON
TR106
+5V
TR101, 102
PROTECT
POWER ON/OFF
ON/OFF CONT
+12V
C4, 5, D6-8 DOUBLE VOLTAGE RECTIFIER
TR123 -30V REG
10Ω
-VP (TO SYSTEM-FLD PCB)
PROTECT
TR124
+Vcc(POWER AM
+7V
R301 18K
D301 D302
7V
6V
6V
CENTER VOLTAGE DE
R302 18K
7V
D1
-7V
-Vcc(POWER AM
POWER BLK

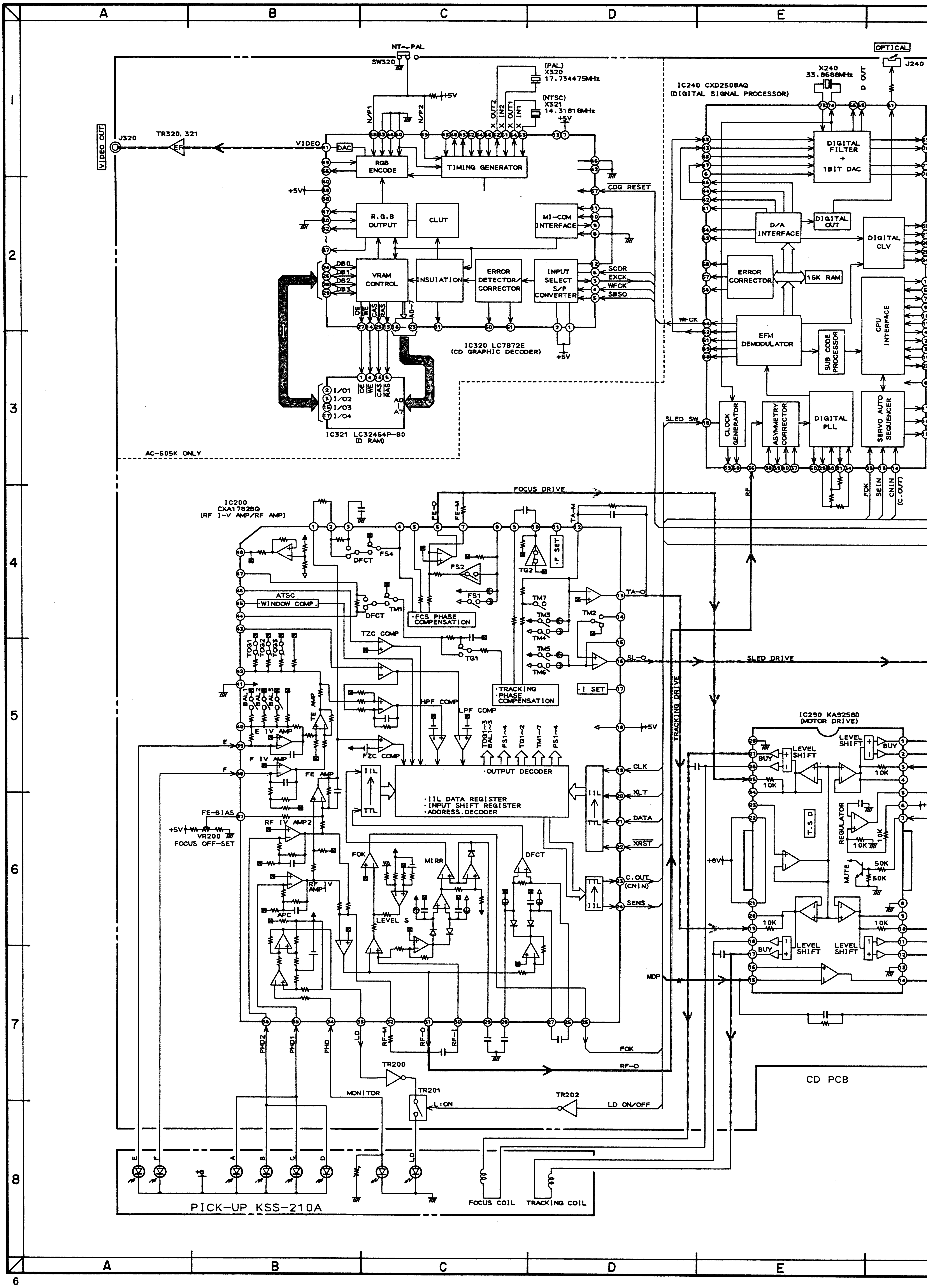

F
G
H
I
J
1
2
3
4
5
6
7
8
RATION
(2/3)
OPERATION PCB (3/3)
SYSTEM-FLD PCB
TR8~11
MOTOR DRIVE
VR UP
VR DOWN
Rch
VR101
BALANCE
R517
EXCEPT AC-605K
R525
IC503 MC14053 (1/3) (MIC MIX)
H: ON
L: ON
OUTPUT SW
IC506 NJM4558
VREF
IC701 (1/2) NJM4558
TR701~705
GEQ CONTROL
HI CUT
LOW CUT
LOW BOOST
MID BOOST
HI BOOST
FROM IC401
IC702 (2/2)
IC702 (1/2) IC703, 704
5 BAND B.P.F
TR706~710
EF
60 BPF
250 BPF
1K BPF
4K BPF
16K BPF
TO IC401
TUNER/DECK PCB (2/3)
IC400 NJM4558
(1/2) VR401
VOLUME
IC401
S.BASS EQ
TR402
SUPER BASS CONT
S.BASS
MAIN VR PCB
TR201
TR202
AMP MUTE
H: ON
IC505 (1/2) NJM4558
IC201 STK400 (POWER AMP)
NFB
(1/3)
(2/3)
Lch IN
Rch IN
+5V
H. PHONE DET
PHONES
IC503 (2/3)
X1
X0
TO Rch GEQ CIRCUIT
TO Rch REC OUT
IC506 (2/2)
IC505 (2/2)
POSITIVE PHASE DELAY SIGNAL
OPPOSITE PHASE DELAY SIGNAL
IC504 (3/3)
IC503 (3/3)
Y1
IC605 (2/2) NJM4558
MIC ECHO C
5V
TR284
PACK MUTE L: ON
+VCC
TR283
POWER ON: H
TR286
TR285
TR282
TR1
POWER ON/OFF DET
TO IC1
(POWER DOWN)
TR281
PACK ON/OFF CONT
V-AMP -VCC
I-AMP -VCC
I-AMP +VCC
V-AMP +VCC
TR314, R311
TR315, R312
TR316, R313
OVER CURR DETECT
-VCC
FRONT SPEAKERS
L-R DELAY SIGNAL
TR285
L: ON
PROTECT DET
(TO IC401-47)
TR301
TR302
+VCC/-VCC UNBALANCE DET
TR304
TR303
POWER AMP DC BALANCE DET
Lch
Rch
SURROUND
UNER/DECK PCB)
YSTEM-FLD PCB)
O TUNER/DECK PCB)
O CD PCB)
LD PCB)
CK PCB)
DECK PCB)
IC402 LA7230
BUFFER IN
ENCODE OUT
(MODIFIED DOLBY B-TYPE NR)
IC403 TC9299P (ELECTRIC VOLUME)
IN
OUT
CK
DATA
STB
SURROUND DOLBY CLOCK
SURROUND DOLBY DATA
SURROUND DOLBY STB
FROM IC401
IC401 (2/2) NJM4558
(2/2) VR401
TR400
MAIN VR PCB (2/2)
IC201 (3/3) STK400 (POWER AMP)
SURROUND SPEAKER
TR272
TR271
SURROUND ON/OFF
SURROUND LEVEL DET
TR442
TR441
AMP
+Vcc(POWER AMP)
+7V
CENTER VOLTAGE DET
-7V
-Vcc(POWER AMP)
MAIN PCB
MIC SIGNAL LINE
L-R (SURROUND) SIGNAL LINE
Lch AUDIO SIGNAL LINE

AC-600, 603R, 605K
MAIN
BLOCK DIAGRAM
No.4-2 C104052M
A1

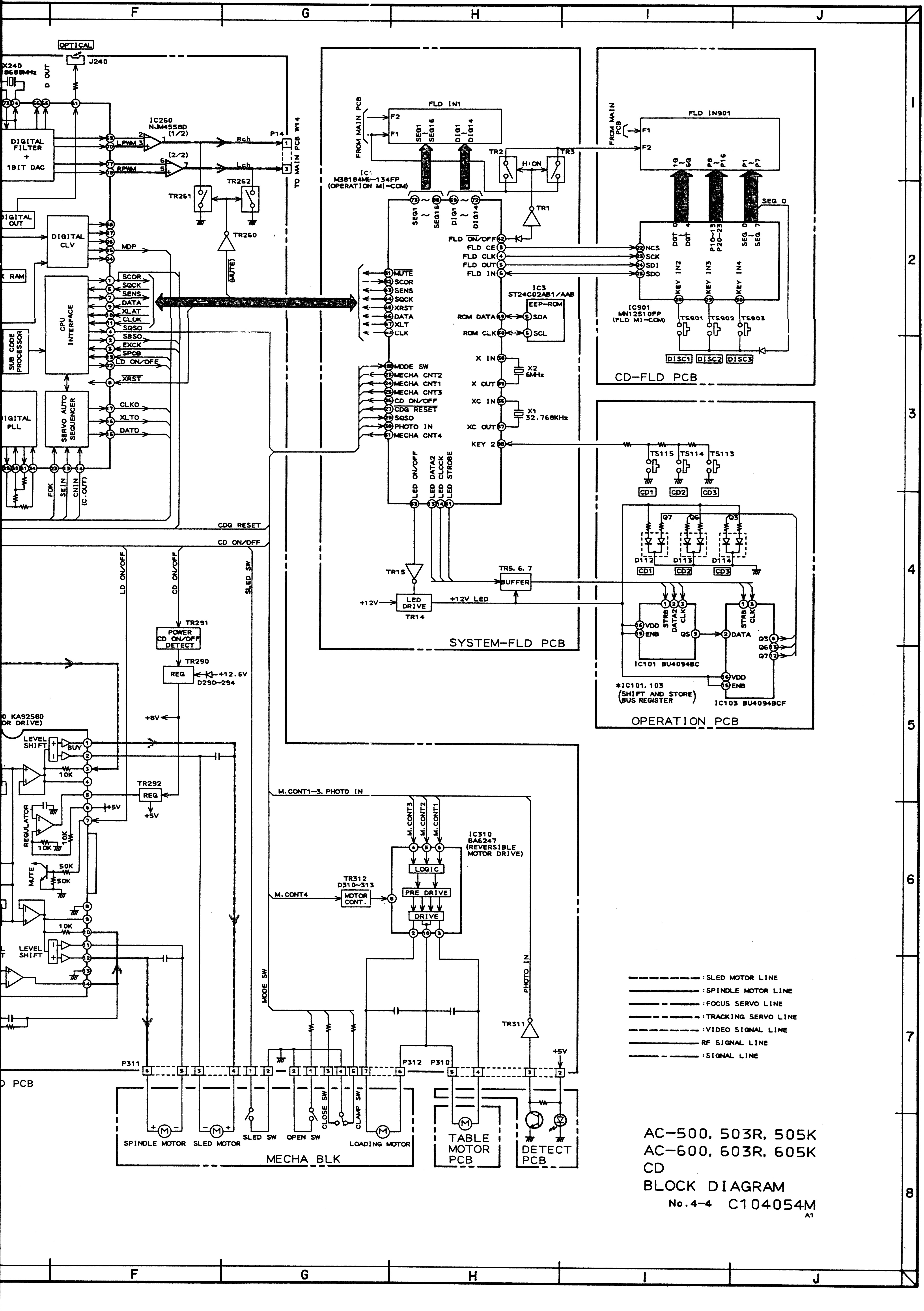

A
B
C
D
E
1
2
3
4
5
6
7
8
REC SIGNAL LINE
DOLBY REC/PB
TR407
L:REC H:PB
PB SIGNAL LINE
Lch TR204
Rch TR254
Lch TR201
Rch TR251
H:ON
Lch TR202
Rch TR252
TR203
Lch FL101
Rch FL151
BIAS TRAP
IC101 CXA1897Q
(AUDIO SIGNAL PROCESSOR)
TAPE-I
LCH
RCH
(PEAKING CONT)
X2 PB:ON
Lch:TR1
Rch:TR51
Lch PB OUT B
Lch PB OUT A
GND
Vcc
IREF
10K
40K
10dB AMP
MUTE
NR
AGC
TR101
H:ON
REC EQ
RECEQ CTL
PBEQ CTL
L:NORMAL SP
REC Rch
TAPE 2
M:70µs
L:120µs
L:120µs, H:70µs
L:TAPE1, H:TAPE2
TR406
TAPE 1/2
TR151
H:ON
TR102
TO MAIN PCB P11
TAPE-II
LCH
RCH
ERASE
Lch TR12
Rch TR62
REC:ON
Lch TR11
Rch TR61
L:OFF
TAPE-1 PB Rch
TAPE-2 PB Rch
Rch PB OUT A
Rch PB OUT B
AMS
+5V
RCH
Lch FL102
Rch FL152
BIAS TRAP
TR103
TR403
H:ON
T1
TR21, 22
BIAS OSC
BIAS OSC PCB
TR25
TR27
NON REG 18V
TR26
L:ON
TR28
4V
+12V
TR23
REC CrO2
H:ON
TR401
TR29
H:ON
REC/PB
PB PEAK X2
OSC
BOP
SEARCH
DOLBY ON/OFF
REC MUTE
OUTPUT SW
TAPE 1/2
1.TAPE 120/70
2.TAPE 120/70
REC EQ X1/X2
TAPE-I MECHA
AC-600, 603R, 605K, USR-800 ONLY
IC351 BA6209N
(MOTOR DRIVE)
EJECT MOTOR
P351
OUT1
OUT2
F IN
R IN
EJECT CAM POSITION DETECT SW
CLOSE
COM
OPEN
1.FWD
1.REV
1.CLOSE
1.OPEN
P353
VR302
X1 SPEED
VR301
X2 SPEED
CM
TR301
L:ON
TR302
1.CAP X1/X2
TR305
+12V
TR306
L:ON
1.CAP ON/OFF
1.PACK SW
1.120/70 SW
1.PLAY SW
1.PULSE
TAPE-I MECHA CONTROL
DETECT SWs
REEL PULSE
TR321
AMP
SOLENOID
TR309
TR312
+12V
L:ON
TR315
TR314
PL COM
TR310
1.TAPE PL
IC401 (INSIDE) : AC-600/603R/605K, USR-
SYSTEM CONTROL MI-COM
M38184M8-167FP
IC402 (OUTSIDE) : AC-500/ 503R/505K, U
SYSTEM CONTROL MI-COM
M38173M6-354FP
TAPE-II MECHA
AC-600, 603R, 605K, USR-800 ONLY
IC352 BA6209N
(MOTOR DRIVE)
EJECT MOTOR
P352
2.FWD
2.REV
2.CLOSE
2.OPEN
P354
VR304
X1 SPEED
VR303
X2 SPEED
TR303
L:ON
TR304
2.CAP X1/X2
TR307
+12V
TR308
L:ON
2.CAP ON/OFF
TAPE-II MECHA CONTROL
SOLENOID
TR311
L:ON
TR313
2.TAPE PL
TR322
AMP
REEL PULSE
2.PULSE
DETECT SWs
2.R REC
2.F REC
2.PACK SW
2.120/70 SW
2.PLAY SW
TUNER/DECK PCB


E
F
G
H
I
J
1
2
3
4
5
6
7
8
DOLBY REC/PB
Lch TR204
Rch TR254
H:ON
TR205
INPUT MUTE
Lch TR201
Rch TR251
H:ON
Lch TR202
Rch TR252
MUTE H:ON
TR409
OUTPUT SW
AC-600, 603R, 605K
USR-800 ONLY
TR203
PB MUTE
TR101
H:ON
L:NORMAL SPEED, H:HIGH SPEED
TR404
M:70μs (CrO2)
L:120μs (NORMAL)
TR402
TR405
TR406
PE 2
120μs, H:70μs
TAPE1, H:TAPE2
TR151
H:ON
TR102
TAPE 1/2
TAPE1 120/70
TAPE2 120/70
REC EQ X1/X2
TO MAIN PCB P11
REC Lch
REC Rch
PB Rch
PB Lch
PRE BLK
60 BPF
HI BOOST
LOW CUT
MID BOOST
HI CUT
LOW BOOST
16K BPF
4K BPF
1K BPF
250 BPF
VR IN L
VR IN R
TO SYSTEM-FLD PCB
Lch IN
Lch OUT
Rch OUT
Rch IN
V.FAD
TO MAIN PCB P11
TUNER L
TUNER R
FM ANT.
AM LOOP ANT.
FM ANT.
AM ANT.
Lch
Rch
STEREO
TUNED
T.MUTE
DATA OUT
CLOCK
DATA IN
CE
DET OUT
TUNER UNIT
H:ON
Lch TR807
Rch TR806
TR805
TR804
TUNER MUTE
503R, 603R ONLY
TR801
BUF
DOLBY ON/OFF
REC MUTE
OUTPUT SW
TAPE 1/2
1.TAPE 120/70
2.TAPE 120/70
REC EQ X1/X2
PB MUTE
INPUT MUTE
DOLBY REC/PB
250 BPF
1K BPF
4K BPF
16K BPF
LOW BOOST
HI CUT
MID BOOST
LOW CUT
HI BOOST
60 BPF
RDY
CLOCK
DATA IN
DATA OUT
RESET
IDE) : AC-600/603R/605K, USR-800
NTROL MI-COM
167 FP
SIDE) : AC-500/ 503R/505K, USR-600
NTROL MI-COM
354FP
503R, 603R ONLY
X3
4.3M
OSCO
OSCI
IC5 LC7073M
(RDS DATA PROCESS)
RES
DATA START
DATA OUT
CLK OUT
DATA IN
CLK IN
RDDA
CLK OUT
MUX
IC4
SAA6579T
(RDS DEMODULATOR)
VCC
TR13
RDS ON/OFF DETECT
TR12
REG
IN1
FLD (SYSTEM)
F1
F2
SEG1 ~ SEG16
DIG1 ~ DIG14
FROM MAIN PCB
SEG1~16
DIG1~14
SEG16
SEG1
DIG14
DIG1
RDS ON/OFF
IC3
ST24C02AB1/AAB
EEP-ROM
ROM CLK
SCL
ROM DATA
SDA
X IN
X OUT
X2
6MHz
XCIN
XCOUT
X1
32.768KHz
RDS START
RDS RESET
RDS DATA
RDS CLK
STEREO
TUNED
TUNER MUTE
PLL CE
PLL OUT
PLL CLOCK
PLL IN
DECK REDY
DECK CLK
DECK OUT
DECK IN
B RESET
FLD ON/OFF
RESET
TR1
RESET
TS800
IC2
PST-9121
RESET IC
VCC
VREF
VF
H:ON
TR2, 3
IC1 M38184M8-134FP
(OPERATION MI-COM)
SYSTEM-FLD PCB
KEY 1
KEY 2
KEY 3
KEY 4
LED STROBE
LED CLOCK
LED DATA2
LED DATA1
LED ON/OFF
TR4~7
BUFFER
TR15
LED ON/OFF DETECT
L:ON
TR14
+12V
AC-505K, 605K ONLY
KARAOKE
TS111
FUNCTION KEYS
(TS105, 107, 108, 109, 110)
FUNCTION KEYS
(TS106, 112, 116, 117)
FUNCTION KEYS
(TS118, 121 : AC-600, 603R, 605K, USR-800 ONLY)
(TS108, 119, 120, 122, 123)
FUNCTION KEYS
(TS101~104)
CLOCK STROBE
DATA2 CLOCK STROBE
DATA1 CLOCK, STROBE
IC103 BU4094BCF
DATA
Q4, 5, 8 Q1 Q2
DATA
QS
Q1, 2 Q5~7
IC101 BU4094BC
Q1, 2 Q5~8
IC102 BU4094BC
+12V
D111, 115, D116
D117
D100~104
D105~110
* IC101~103
SHIFT AND STORE
BUS REGISTER
OPERATION PCB
FL CE
FL CLOCK
FL DATA
MIC DELAY
AMP MUTE
ECHO LEVEL 1
ECHO LEVEL 2
ECHO LEVEL 3
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
TO MAIN PCB P12
PROTECT
PACK MUTE
POWER ON/OFF
HEADPHONE
SURROUND CLOCK
SURROUND DATA
SURROUND STB
SURROUND ON/OFF
TO MAIN PCB P13
NCS
SCK
SDI
IC801 MN12510FP
(FLD MI-COM)
SEG0~7
P10~13
P20~23
DGT0~2
F1
F2
P1 ~ P8
P9 ~ P16
G1 ~ G3
FLD (SURROUND)
IN801
FROM MAIN PCB
VF
SURROUND-FLD PCB
AC-600/603R/605K, USR-800 ONLY
PB SIGNAL LINE (Lch)
REC SIGNAL LINE (Lch)
TUNER SIGNAL LINE (Lch)
A1

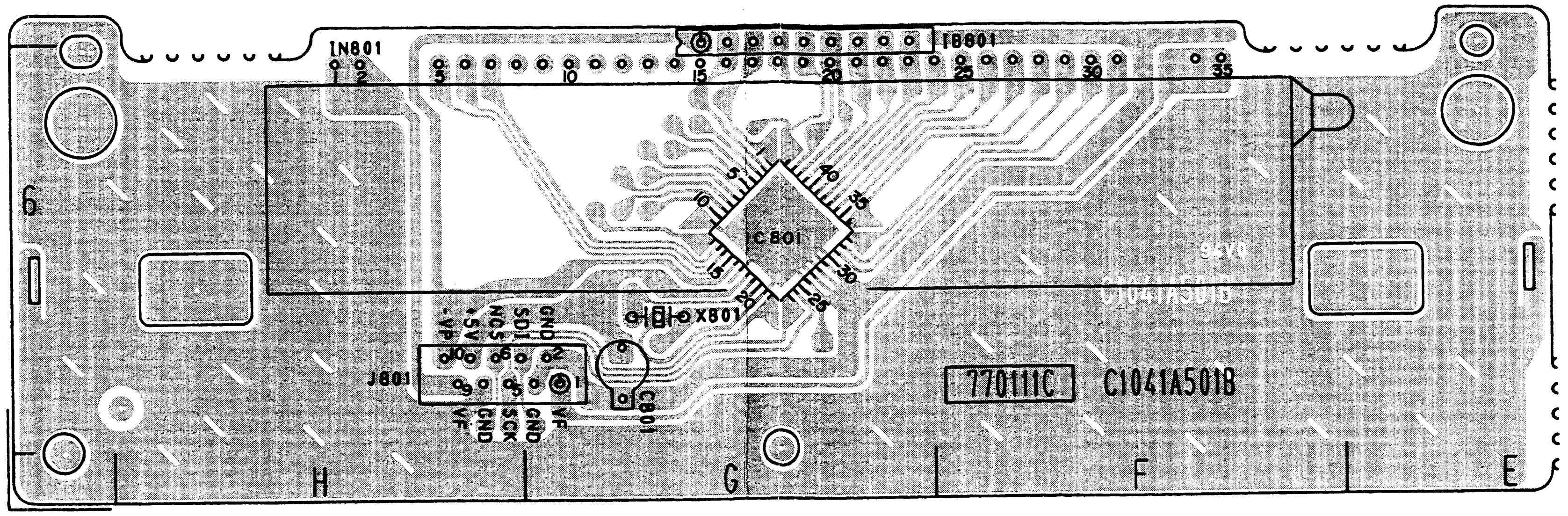
AC–500, 503R, 505K
AC–600, 603R, 605K
TUNER/DECK
BLOCK DIAGRAM
No.4–3 C104053M



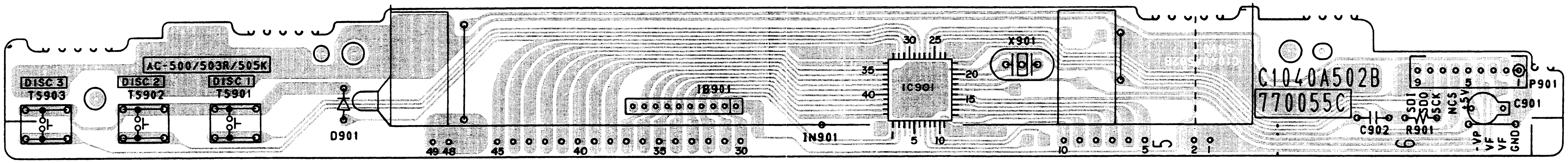
NT↔PAL
SW320
(PAL) X320 17.734475MHz
(NTSC) X321 14.31818MHz
+5V
VIDEO OUT
J320
TR320, 321
EF
VIDEO
DAC
RGB ENCODE
TIMING GENERATOR
R.G.B OUTPUT
CLUT
MI-COM INTERFACE
CDG RESET
VRAM CONTROL
INSUIATION
ERROR DETECTOR/ CORRECTOR
INPUT SELECT S/P CONVERTER
SCOR
EXCK
WFCK
SBSO
DB0
DB1
DB2
DB3
IC320 LC7872E (CD GRAPHIC DECODER)
IC321 LC32464P-80 (D RAM)
I/O1
I/O2
I/O3
I/O4
A0~A7
AC-605K ONLY
OPTICAL
J240
X240 33.8688MHz
D OUT
IC240 CXD2508AQ (DIGITAL SIGNAL PROCESSOR)
DIGITAL FILTER + 1BIT DAC
D/A INTERFACE
DIGITAL OUT
DIGITAL CLV
ERROR CORRECTOR
16K RAM
EFM DEMODULATOR
SUB CODE PROCESSOR
CPU INTERFACE
CLOCK GENERATOR
ASYMMETRY CORRECTOR
DIGITAL PLL
SERVO AUTO SEQUENCER
SLED SW
WFCK
RF
FOK
SEIN
CNIN (C.OUT)
FOCUS DRIVE
IC200 CXA1782BQ (RF I-V AMP/RF AMP)
FE-O
FE-M
TA-M
DFCT
FS4
FS2
FS1
TG2
·F SET
ATSC
·WINDOW COMP.
TM1
·FCS PHASE COMPENSATION
TM7
TM3
TM4
TM2
TM5
TM6
TA-O
SL-O
SLED DRIVE
TZC COMP
TG1
TOG1
TOG2
TOG3
BAL1
BAL2
BAL3
·TRACKING ·PHASE COMPENSATION
·I SET
TE AMP
E IV AMP
F IV AMP
FE AMP
HPF COMP
LPF COMP
FZC COMP
TOG1~3 BAL1~3
FS1~4
TG1~2
TM1~7
PS1~4
·OUTPUT DECODER
IIL
TTL
·IIL DATA REGISTER ·INPUT SHIFT REGISTER ·ADDRESS.DECODER
CLK
XLT
DATA
XRST
C.OUT (CNIN)
SENS
FE-BIAS
+5V
VR200 FOCUS OFF-SET
RF IV AMP2
RF IV AMP1
APC
FOK
MIRR
LEVEL S
DFCT
TRACKING DRIVE
E
F
PHD2
PHD1
PHD
LD
RF-M
RF-O
RF-I
FOK
RF-O
TR200
TR201
L:ON
MONITOR
TR202
LD ON/OFF
IC290 KA9258D (MOTOR DRIVE)
LEVEL SHIFT
BUY
10K
T.S.D
REGULATOR
+8V
MUTE
50K
MDP
CD PCB
PICK-UP KSS-210A
A
B
C
D
+B
FOCUS COIL
TRACKING COIL
1
2
3
4
5
6
7
8


OPTICAL
J240
X240
8688MHz
D OUT
DIGITAL FILTER + 1BIT DAC
IC260
NJM4558D
(1/2)
(2/2)
LPWM
RPWM
Rch
Lch
P14
TO MAIN PCB W14
TR261
TR262
TR260
MUTE
DIGITAL OUT
DIGITAL CLV
MDP
RAM
CPU INTERFACE
SUB CODE PROCESSOR
SCOR
SQCK
SENS
DATA
XLAT
CLOK
SQSO
SBSO
EXCK
SPOB
LD ON/OFF
XRST
DIGITAL PLL
SERVO AUTO SEQUENCER
CLKO
XLTO
DATO
FOK
SEIN
CNIN (C.OUT)
CDG RESET
CD ON/OFF
LD ON/OFF
SLED SW
TR291
POWER CD ON/OFF DETECT
TR290
REG
+12.6V
D290~294
KA9258D
(MOTOR DRIVE)
+8V
LEVEL SHIFT
BUY
10K
TR292
REG
+5V
REGULATOR
MUTE
50K
LEVEL SHIFT
FLD IN1
FROM MAIN PCB
F1
F2
SEG1 ~ SEG16
DIG1 ~ DIG14
TR2
TR3
H:ON
TR1
IC1
M38184ME-134FP
(OPERATION MI-COM)
FLD ON/OFF
FLD CE
FLD CLK
FLD OUT
FLD IN
MUTE
SCOR
SENS
SQCK
XRST
DATA
XLT
CLK
IC3
ST24C02AB1/AAB
EEP-ROM
SDA
SCL
ROM DATA
ROM CLK
X IN
X OUT
XC IN
XC OUT
X2
6MHz
X1
32.768KHz
KEY 2
MODE SW
MECHA CNT2
MECHA CNT1
MECHA CNT3
CD ON/OFF
CDG RESET
SQSO
PHOTO IN
MECHA CNT4
LED ON/OFF
LED DATA2
LED CLOCK
LED STROBE
TR15
TR5, 6, 7
BUFFER
+12V
LED DRIVE
TR14
+12V LED
SYSTEM-FLD PCB
FLD IN901
1G ~ 6G
P8 ~ P16
P1 ~ P7
SEG 0
DGT 0 ~ DGT 4
P10~13 P20~23
SEG 0 ~ SEG 7
NCS
SCK
SDI
SDO
KEY IN2
KEY IN3
KEY IN4
IC901
MN12510FP
(FLD MI-COM)
TS901
TS902
TS903
DISC1
DISC2
DISC3
CD-FLD PCB
TS115
TS114
TS113
CD1
CD2
CD3
Q7
Q6
Q3
D112
D113
D114
STRB
DATA2
CLK
VDD
ENB
QS
DATA
Q3
Q6
Q7
IC101 BU4094BC
*IC101, 103
(SHIFT AND STORE BUS REGISTER)
IC103 BU4094BCF
OPERATION PCB
M.CONT1~3, PHOTO IN
M.CONT3
M.CONT2
M.CONT1
IC310
BA6247
(REVERSIBLE MOTOR DRIVE)
LOGIC
PRE DRIVE
DRIVE
TR312
D310~313
MOTOR CONT.
M.CONT4
MODE SW
PHOTO IN
TR311
+5V
P311
P312
P310
SPINDLE MOTOR
SLED MOTOR
SLED SW
OPEN SW
CLOSE SW
CLAMP SW
LOADING MOTOR
MECHA BLK
TABLE MOTOR PCB
DETECT PCB
D PCB
:SLED MOTOR LINE
:SPINDLE MOTOR LINE
:FOCUS SERVO LINE
:TRACKING SERVO LINE
:VIDEO SIGNAL LINE
RF SIGNAL LINE
:SIGNAL LINE
F
G
H
I
J
1
2
3
4
5
6
7
8

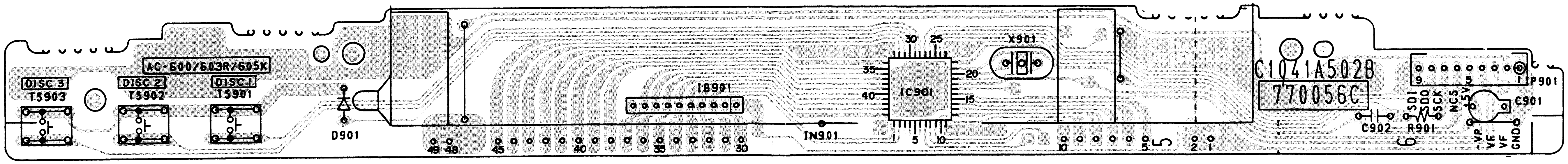
AC-500, 503R, 505K
AC-600, 603R, 605K
CD
BLOCK DIAGRAM
No.4-4 C104054M
A1


IN801
IB801
IC801
X801
J801
C801
GND
SDI
NCS
+5V
-VP
VF
SCK
770111C
C1041A501B
94V0
H
G
F
E
6

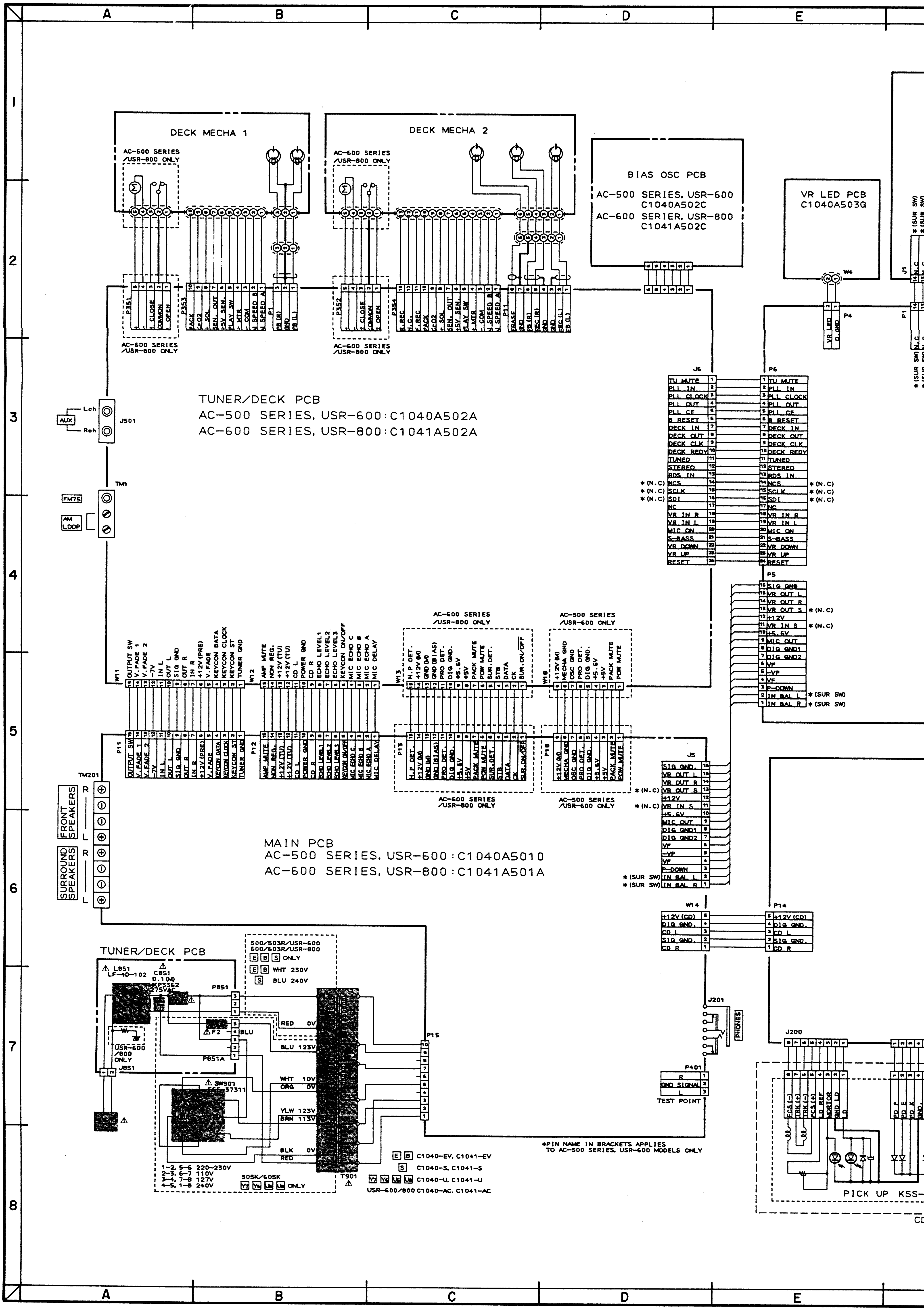
SURROUND－FLD PCB C1041A501B

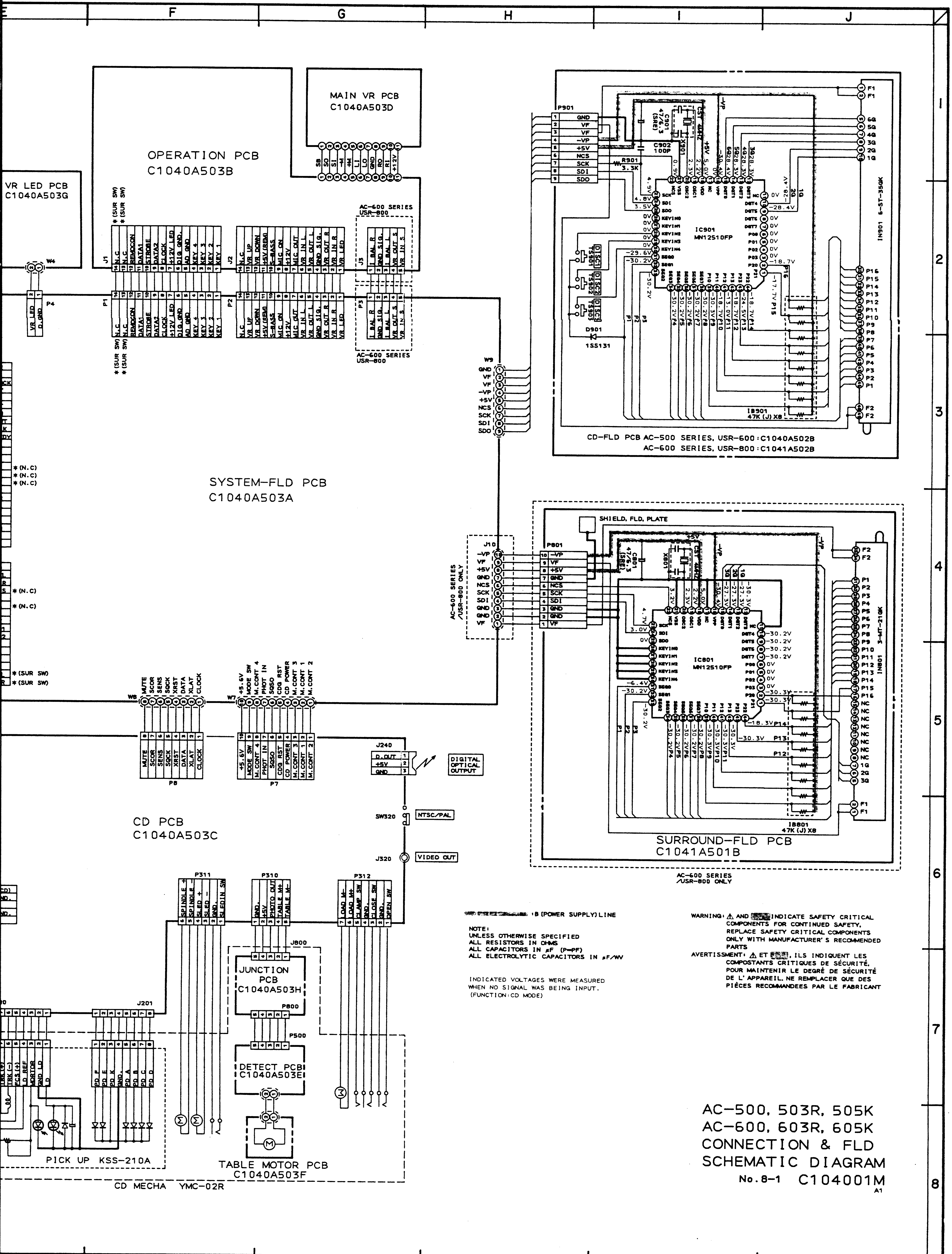

AC-500/503R/505K
DISC 3
DISC 2
DISC 1
TS903
TS902
TS901
D901
IB901
IN901
IC901
X901
C1040A502B
770055C
P901
C901
C902
R901
SDI
SDO
SCK
NCS
+5V
-VP
VF
GND

CD－FLD PCB C1040A502B


AC-600/603R/605K
DISC 3
DISC 2
DISC 1
TS903
TS902
TS901
D901
IB901
IN901
IC901
X901
C1041A502B
770056C
P901
C901
C902
R901
SDI
SDO
SCK
NCS
+5V
-VP
VF
GND

CD－FLD PCB C1041A502B


A
B
C
D
E
1
2
3
4
5
6
7
8
DECK MECHA 1
AC-600 SERIES /USR-800 ONLY
DECK MECHA 2
BIAS OSC PCB
AC-500 SERIES, USR-600 C1040A502C
AC-600 SERIER, USR-800 C1041A502C
VR LED PCB C1040A503G
W4
P4
VR LED
D. GND
P351
CLOSE
COMMON
OPEN
P353
PACK
CrO2
SOL
SEN. OUT
+5V SEN.
PLAY SW
+ MTR
- COM
SPEED B
SPEED A
P1
PB (R)
GND
PB (L)
P352
P354
REC
N.C.
ERASE
P11
J6
P6
TU MUTE
PLL IN
PLL CLOCK
PLL OUT
PLL CE
B RESET
DECK IN
DECK OUT
DECK CLK
DECK REDY
TUNED
STEREO
RDS IN
NCS
SCLK
SDI
NC
VR IN R
VR IN L
MIC ON
S-BASS
VR DOWN
VR UP
RESET
* (N.C)
TUNER/DECK PCB
AC-500 SERIES, USR-600:C1040A502A
AC-600 SERIES, USR-800:C1041A502A
AUX
Lch
Rch
J501
TM1
FM75
AM LOOP
P5
SIG GND
VR OUT L
VR OUT R
VR OUT S
+12V
VR IN S
+5.6V
MIC OUT
DIG GND1
DIG GND2
VF
-VP
P-DOWN
IN BAL L
IN BAL R
* (SUR SW)
W11
OUTPUT SW
V.FADE 1
V.FADE 2
-7V
IN L
OUT L
SIG GND
IN R
OUT R
+12V (PRE)
V.FADE
KEYCON DATA
KEYCON CLOCK
KEYCON ST
TUNER GND
W12
AMP MUTE
NON REG.
+12V (TU)
CD L
POWER GND
CD R
ECHO LEVEL1
ECHO LEVEL2
ECHO LEVEL3
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY
W13
AC-600 SERIES /USR-800 ONLY
H.P DET.
+12V (M)
GND (M)
GND (BIAS)
PRO DET.
DIG GND.
+5.6V
+5V
PACK MUTE
POW MUTE
SUR.DET.
STB
DATA
CK
SUR.ON/OFF
W18
AC-500 SERIES /USR-600 ONLY
MECHA GND
OSC GND
P12
P13
P18
J5
TM201
FRONT SPEAKERS
SURROUND SPEAKERS
R
L
MAIN PCB
AC-500 SERIES, USR-600:C1040A5010
AC-600 SERIES, USR-800:C1041A501A
W14
P14
+12V (CD)
DIG GND.
SIG GND.
TUNER/DECK PCB
⚠ L851 LF-4D-102
⚠ C851 0.1(M) MKP3362 275VAC
P851
⚠ F2
USR-600 /800 ONLY
J851
P851A
⚠ SW901 ESE-37311
500/503R/USR-600
600/603R/USR-800
E B S ONLY
E B WHT 230V
S BLU 240V
RED 0V
BLU
BLU 123V
WHT 10V
ORG 0V
YLW 123V
BRN 113V
BLK 0V
RED
T901 ⚠
P15
1-2, 5-6 220-230V
2-3, 6-7 110V
3-4, 7-8 127V
4-5, 1-8 240V
505K/605K
Y7 Y6 U6 U8 ONLY
E B C1040-EV, C1041-EV
S C1040-S, C1041-S
Y7 Y6 U6 U8 C1040-U, C1041-U
USR-600/800 C1040-AC, C1041-AC
J201
PHONES
P401
R
GND SIGNAL
L
TEST POINT
*PIN NAME IN BRACKETS APPLIES TO AC-500 SERIES, USR-600 MODELS ONLY
J200
FCS (-)
TRK (+)
TRK (-)
FCS (+)
LD REF
MONITOR
GND LD
LD
PD F
PD E
PD K
GND
PICK UP KSS-
CD
J1
N.C
* (SUR SW)


E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
MAIN VR PCB
C1040A503D
OPERATION PCB
C1040A503B
VR LED PCB
C1040A503G
SYSTEM-FLD PCB
C1040A503A
CD PCB
C1040A503C
CD-FLD PCB AC-500 SERIES, USR-600 : C1040A502B
AC-600 SERIES, USR-800 : C1041A502B
IC901
MN12510FP
IN901 6-ST-35GK
IB901
47K (J) X8
D901
1SS131
R901
3.3K
C901
47/6.3
(SRE)
C902
100P
X901
CST 4MHZ
DISC1
TS901
DISC2
TS902
DISC3
TS903
P901
SHIELD, FLD, PLATE
SURROUND-FLD PCB
C1041A501B
IC801
MN12510FP
IN801 3-MT-21GK
IB801
47K (J) X8
P801
C801
47/6.3
(SRE)
X801
AC-600 SERIES
/USR-800 ONLY
AC-600 SERIES
USR-800
W4
W9
J10
W8
W7
P4
P1
P2
P3
J1
J2
J3
P8
P7
J240
DIGITAL
OPTICAL
OUTPUT
SW320
NTSC/PAL
J320
VIDEO OUT
P311
P310
P312
J800
JUNCTION
PCB
C1040A503H
P800
P500
DETECT PCB
C1040A503E
J201
PICK UP KSS-210A
TABLE MOTOR PCB
C1040A503F
CD MECHA YMC-02R
* (SUR SW)
* (N.C)
GND
VF
-VP
+5V
NCS
SCK
SDI
SDO
MUTE
SCOR
SENS
SQCK
XRST
DATA
XLAT
CLOCK
+5.6V
MODE SW
M.CONT 4
PHOT IN
SQSO
CDG RST
CD POWER
M.CONT 3
M.CONT 1
M.CONT 2
D.OUT
SPINDLE +
SPINDLE -
SLED +
SLED -
SLEDIN SW
PHOTO OUT
TABLE M+
TABLE M-
LOAD M-
LOAD M+
CLAMP SW
CLOSE SW
OPEN SW

: B (POWER SUPPLY) LINE

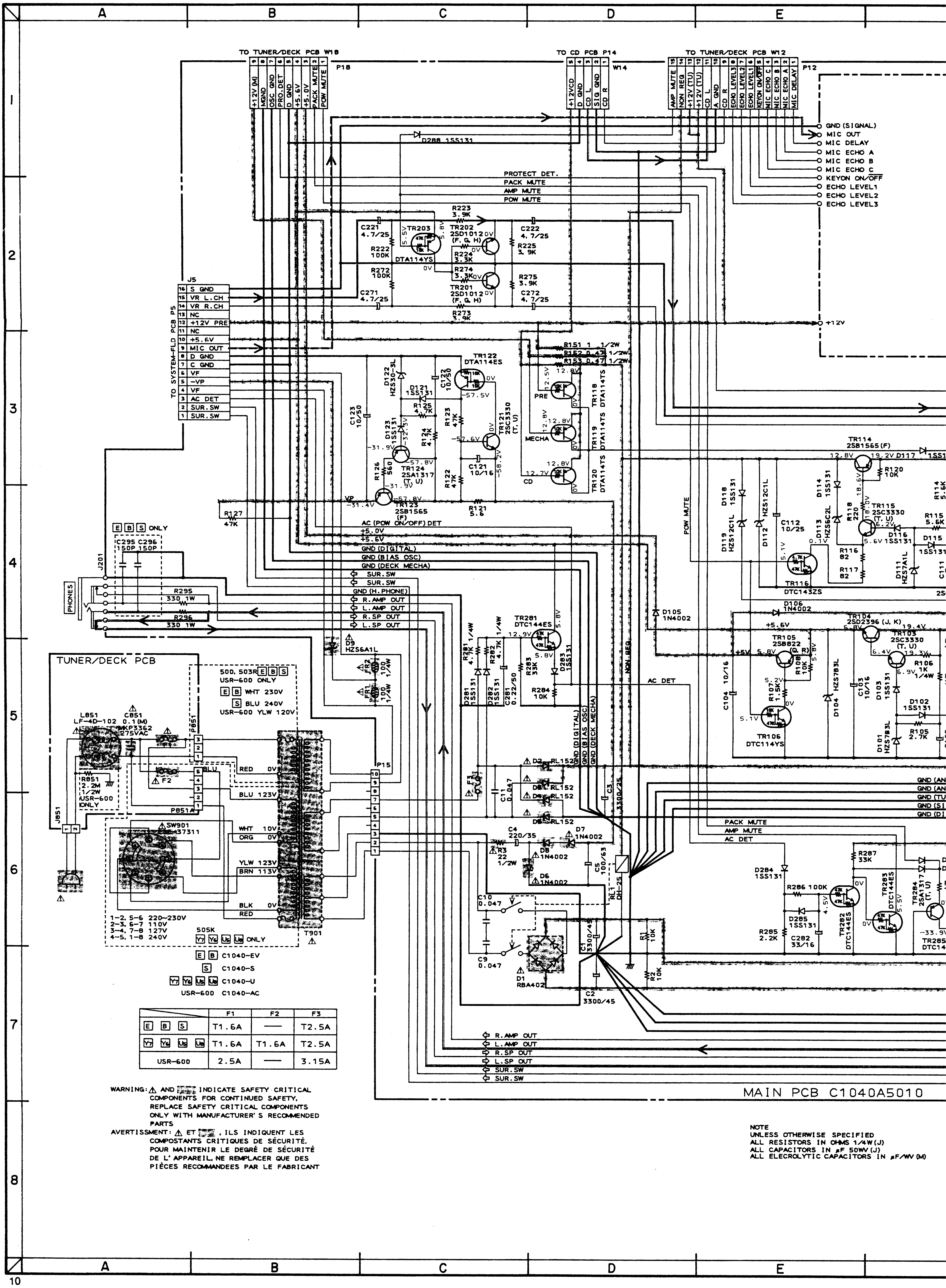
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN µF/WV

INDICATED VOLTAGES WERE MEASURED
WHEN NO SIGNAL WAS BEING INPUT.
(FUNCTION: CD MODE)

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

AC-500, 503R, 505K
AC-600, 603R, 605K
CONNECTION & FLD
SCHEMATIC DIAGRAM
No.8-1 C104001M
A1

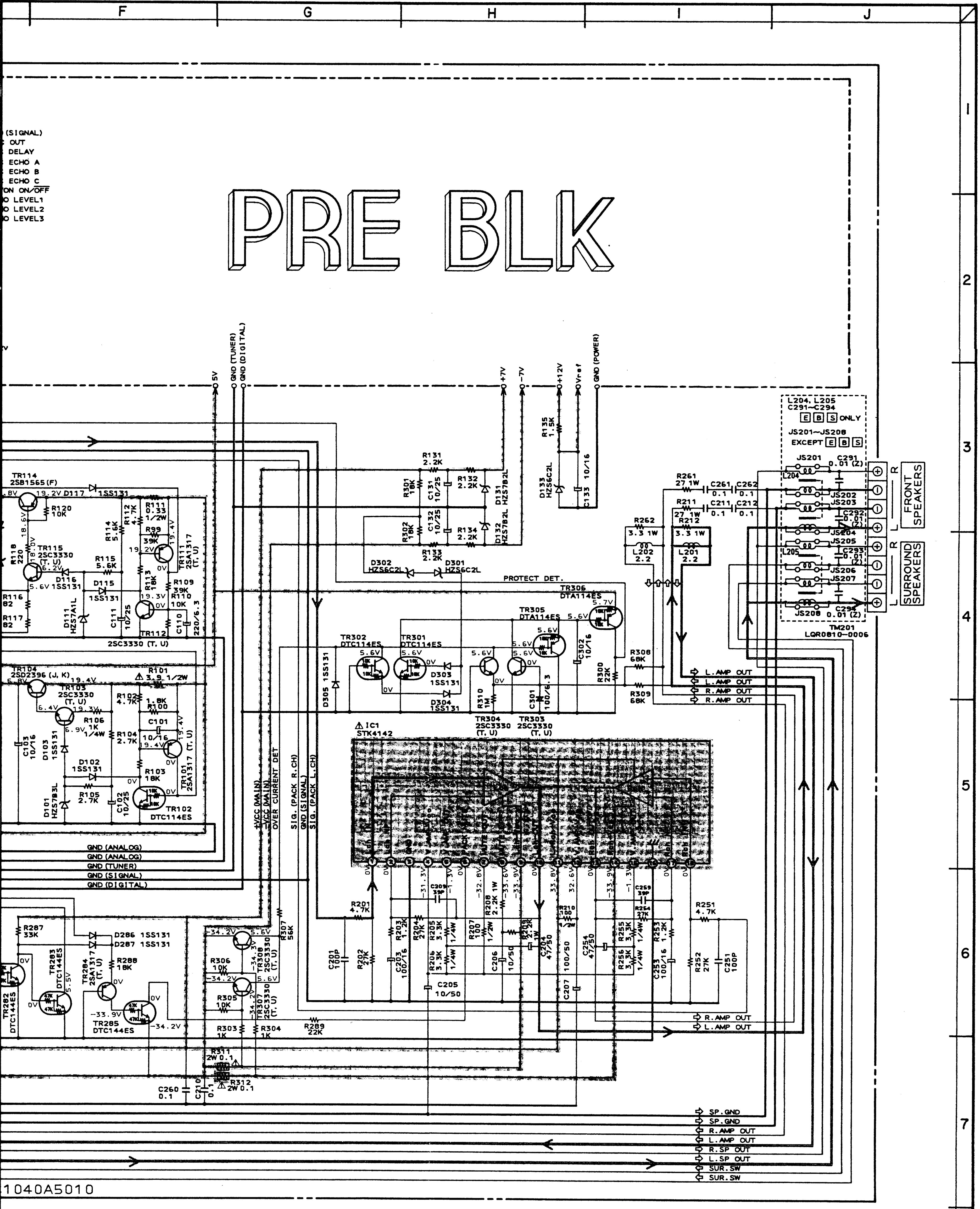

A
B
C
D
E
1
2
3
4
5
6
7
8
TO TUNER/DECK PCB W18
P18
+12V (M)
MGND
OSC GND
PRO.DET
D GND
+5.6V
+5.0V
PACK MUTE
POW MUTE
TO CD PCB P14
W14
+12VCD
D GND
CD L
SIG GND
CD R
TO TUNER/DECK PCB W12
P12
AMP MUTE
NON REG
+12V (TU)
+12V (TU)
CD L
A GND
CD R
ECHO LEVEL3
ECHO LEVEL2
ECHO LEVEL1
KEYON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY
GND (SIGNAL)
MIC OUT
MIC DELAY
MIC ECHO A
MIC ECHO B
MIC ECHO C
KEYON ON/OFF
ECHO LEVEL1
ECHO LEVEL2
ECHO LEVEL3
D288 1SS131
PROTECT DET.
PACK MUTE
AMP MUTE
POW MUTE
R223 3.9K
C221 4.7/25
TR203
DTA114YS
R222 100K
TR202 2SD1012 (F, G, H)
C222 4.7/25
R225 3.9K
R224 3.3K
R272 100K
R274 3.3K
TR201 2SD1012 (F, G, H)
R275 3.9K
C271 4.7/25
C272 4.7/25
R273 3.9K
+12V
TO SYSTEM-FLD PCB P5
J5
S GND
VR L.CH
VR R.CH
NC
+12V PRE
NC
+5.6V
MIC OUT
D GND
C GND
VF
-VP
VF
AC DET
SUR.SW
SUR.SW
R151 1 1/2W
R152 0.47 1/2W
R153 0.47 1/2W
TR122 DTA114ES
D122 HZS30-3L
D121 1SS131
C122 10/50
R125 4.7K
C123 10/50
D123 1SS131
R124 4.7K
R123 47K
TR121 2SC3330 (T, U)
TR124 2SA1317 (T, U)
R126 560
C121 10/16
R122 47K
TR123 2SB1565 (F)
R121 5.6
R127 47K
VP
PRE
MECHA
CD
TR118 DTA114TS
TR119 DTA114TS
TR120 DTA114TS
AC (POW ON/OFF) DET
+5.0V
+5.6V
GND (DIGITAL)
GND (BIAS OSC)
GND (DECK MECHA)
SUR.SW
SUR.SW
GND (H.PHONE)
R.AMP OUT
L.AMP OUT
R.SP OUT
L.SP OUT
E B S ONLY
C295 C296 150P 150P
J201
PHONES
R295 330 1W
R296 330 1W
D9 HZS6A1L
FR2 100 1/4W
FR1 100 1/4W
TR281 DTC144ES
R281 4.7K 1/4W
R282 4.7K 1/4W
R283 33K
D283 1SS131
D281 1SS131
D282 1SS131
C281 0.22/50
R284 10K
POW MUTE
NON REG
AC DET
D105 1N4002
TR114 2SB1565(F)
D117 1SS131
R120 10K
D118 1SS131
D119 HZS12C1L
D112 HZS12C1L
C112 10/25
D114 1SS131
D113 HZS6C2L
R118 220
TR115 2SC3330 (T, U)
D116 1SS131
R115 5.6K
R114 5.6K
D115 1SS131
R116 82
R117 82
D111 HZS7A1L
DTC143ZS
TR116
D106 1N4002
TR104 2SD2396 (J, K)
TR103 2SC3330 (T, U)
+5.6V
TR105 2SB822 (Q, R)
R108 1K
R106 1K 1/4W
C104 10/16
R107 1.5K
D104 HZS7B3L
C103 10/16
D103 1SS131
D102 1SS131
TR106 DTC114YS
D101 HZS7B3L
R105 2.7K
TUNER/DECK PCB
500, 503R E B S
USR-600 ONLY
E B WHT 230V
S BLU 240V
USR-600 YLW 120V
L851 LF-4D-102
C851 0.1(M) MKP3362 275VAC
P851
R851 2.2M 1/2W USR-600 ONLY
F2
P851A
J851
BLU
RED 0V
BLU 123V
SW901 ESB-37311
WHT 10V
ORG 0V
YLW 123V
BRN 113V
BLK 0V
RED
P15
T901
1-2, 5-6 220-230V
2-3, 6-7 110V
3-4, 7-8 127V
4-5, 1-8 240V
505K
Y7 Y6 U5 U6 ONLY
E B C1040-EV
S C1040-S
Y7 Y6 U5 U6 C1040-U
USR-600 C1040-AC
F3
C11 0.047
D2 RL152
D3 RL152
D4 RL152
D5 RL152
GND (DIGITAL)
GND (BIAS OSC)
GND (DECK MECHA)
C3 3300/25
C4 220/35
R3 22 1/2W
D7 1N4002
D8 1N4002
D6 1N4002
C5 100/63
RL1 DH-25
C10 0.047
C9 0.047
D1 RBA402
C1 3300/45
C2 3300/45
R1 10K
R2 10K
PACK MUTE
AMP MUTE
AC DET
D284 1SS131
R287 33K
R286 100K
TR283 DTC144ES
TR284 2SA1317 (T, U)
D285 1SS131
R285 2.2K
C282 33/16
TR282 DTC144ES
TR285
R.AMP OUT
L.AMP OUT
R.SP OUT
L.SP OUT
SUR.SW
SUR.SW
MAIN PCB C1040A5010

	F1	F2	F3
E B S	T1.6A	—	T2.5A
Y7 Y6 U5 U6	T1.6A	T1.6A	T2.5A
USR-600	2.5A	—	3.15A

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL
COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS
ONLY WITH MANUFACTURER'S RECOMMENDED
PARTS

AVERTISSMENT: ⚠ ET ▨ , ILS INDIQUENT LES
COMPOSTANTS CRITIQUES DE SÉCURITÉ,
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ
DE L'APPAREIL, NE REMPLACER QUE DES
PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN µF 50WV (J)
ALL ELECROLYTIC CAPACITORS IN µF/WV (M)


PRE BLK
(SIGNAL)
OUT
DELAY
ECHO A
ECHO B
ECHO C
ON ON/OFF
LEVEL1
LEVEL2
LEVEL3
5V
GND (TUNER)
GND (DIGITAL)
+7V
-7V
+12V
Vref
GND (POWER)
R135 1.5K
D133 HZS6C2L
C133 10/16
R131 2.2K
R301 18K
C131 10/25
R132 2.2K
D131 HZS7B2L
R302 18K
C132 10/25
R134 2.2K
D132 HZS7B2L
R133 2.2K
D302 HZS6C2L
D301 HZS6C2L
PROTECT DET.
TR306 DTA114ES
TR305 DTA114ES
TR302 DTC114ES
TR301 DTC114ES
D303 1SS131
D304 1SS131
D305 1SS131
R310 1M
C301 100/6.3
C302 10/16
R300 22K
R308 68K
R309 68K
TR304 2SC3330 (T, U)
TR303 2SC3330 (T, U)
TR114 2SB1565 (F)
D117 1SS131
R120 10K
R112 4.7K
R111 0.33 1/2W
R114 5.6K
R99 39K
TR111 2SA1317 (T, U)
TR115 2SC3330 (T, U)
R118 220
R115 5.6K
R113 18K
R109 39K
R110 10K
D116 1SS131
D115 1SS131
R116 82
R117 82
D111 HZS7A1L
C111 10/25
C110 220/6.3
TR112 2SC3330 (T, U)
TR104 2SD2396 (J, K)
R101 3.9 1/2W
TR103 2SC3330 (T, U)
R102 4.7K
R100 1.8K
R106 1K 1/4W
C101 10/16
C103 10/16
D103 1SS131
R104 2.7K
TR101 2SA1317 (T, U)
D102 1SS131
R103 18K
R105 2.7K
D101 HZS7B3L
C102 10/25
TR102 DTC114ES
GND (ANALOG)
GND (ANALOG)
GND (TUNER)
GND (SIGNAL)
GND (DIGITAL)
+VCC (MAIN)
-VCC (MAIN)
OVER CURRENT DET
SIG. (PACK R.CH)
GND (SIGNAL)
SIG. (PACK L.CH)
IC1 STK4142
R201 4.7K
C201 100P
R202 27K
C203 100/16
R203 1.2K
R204 27K
R205 3.3K
R206 3.3K
C209 39P
R207 100
R208 2.2K 1W
R209 2.2K 1W
C206 10/50
C204 47/50
C205 10/50
R210 100 1/2W
C207 100/50
C254 47/50
R255 3.3K
R256 3.3K
C259 39P
R254 27K
R253 1.2K
C253 100/16
R251 4.7K
R252 27K
C251 100P
R287 33K
D286 1SS131
D287 1SS131
R288 18K
TR283 DTC144ES
TR284 2SA1317 (T, U)
TR282 DTC144ES
TR285 DTC144ES
R306 10K
R305 10K
TR309 2SC3330 (T, U)
TR308 2SC3330 (T, U)
R307 56K
R303 1K
R304 1K
R289 22K
R311 2W 0.1
R312 2W 0.1
C260 0.1
C210 0.1
L204, L205 C291~C294 E B S ONLY
JS201~JS208 EXCEPT E B S
JS201
C291 0.01 (Z)
L204
JS202
JS203
C292 0.01 (Z)
JS204
JS205
L205
C293 0.01 (Z)
JS206
JS207
JS208
C294 0.01 (Z)
R261 27 1W
C261 0.1
C262 0.1
R211 27 1W
C211 0.1
C212 0.1
R262 3.3 1W
R212 3.3 1W
L202 2.2
L201 2.2
R
L
FRONT SPEAKERS
SURROUND SPEAKERS
TM201 LQR0810-0006
L.AMP OUT
L.AMP OUT
R.AMP OUT
R.AMP OUT
R.AMP OUT
L.AMP OUT
SP.GND
SP.GND
R.AMP OUT
L.AMP OUT
R.SP OUT
L.SP OUT
SUR.SW
SUR.SW
1040A5010
F
G
H
I
J
1
2
3
4
5
6
7

PECIFIED
HMS 1/4W(J)
F 50WV(J)
ACITORS IN µF/WV (M)

INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT. (FUNCTION:CD MODE)

:B (POWER SUPPLY) LINE
:Lch AUDIO SIGNAL LINE
:MIC SIGNAL LINE

AC-500, 503R, 505K
MAIN (1/2)
(POWER SUPPLY
& POWER AMP BLK)
SCHEMATIC DIAGRAM
No.8-2 C104002M
A1

8
F
G
H
I
J

PRINCIPAL PARTS LOCATION

ICs

IC1	F,G4
IC503	F1,2
IC504	E2
IC505	F2
IC506	F2
IC602	F1,2
IC603	G1,2
IC604	H1
IC605	G1
IC606	D1,2
IC607	D,E2

TRANSISTORs

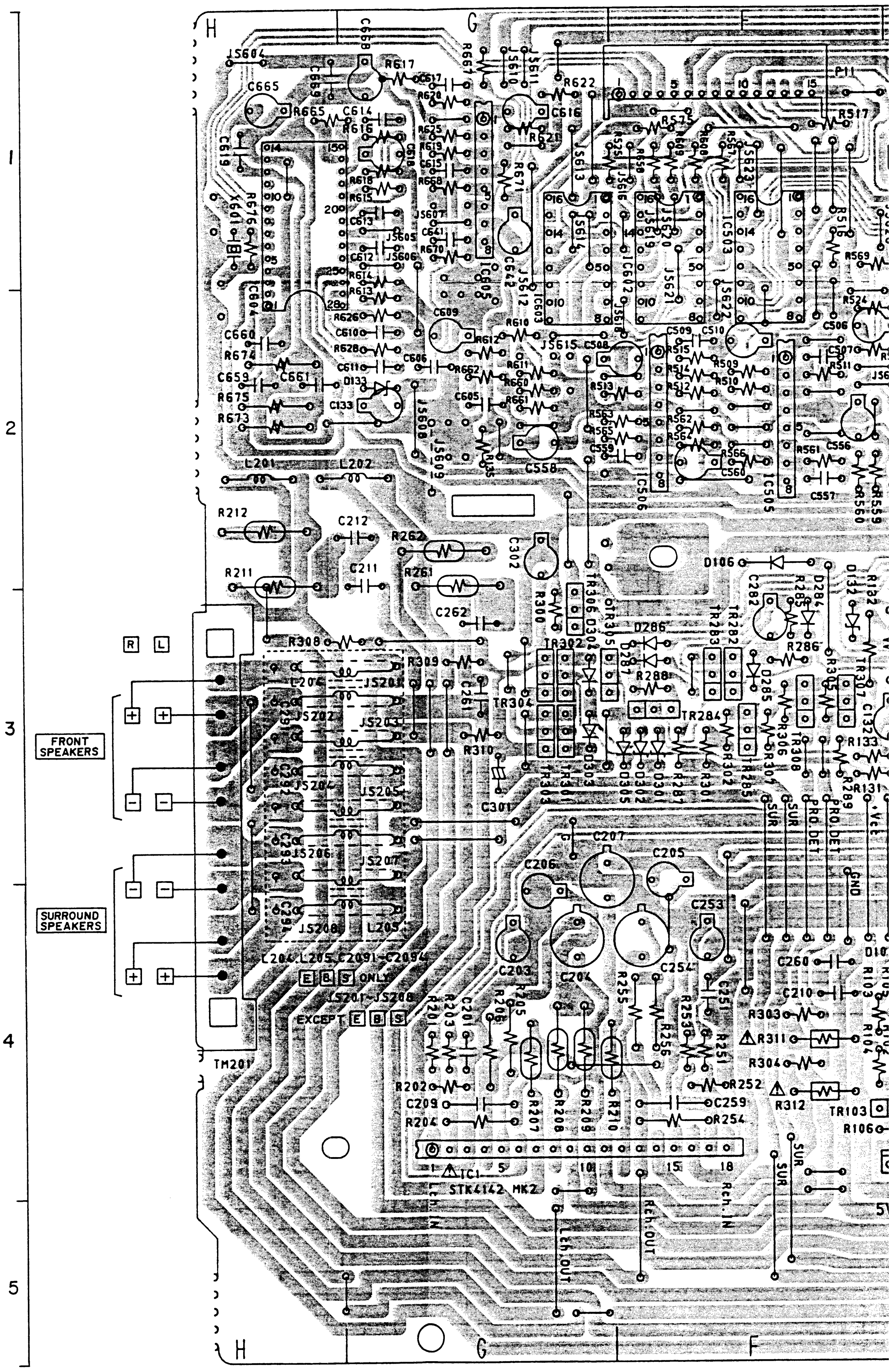
TR101	E4
TR102	E4
TR103	E,F4
TR104	E4
TR105	E3
TR106	E3
TR111	D4
TR112	E4
TR114	E4
TR115	E4
TR116	E4
TR118	C2
TR119	C2
TR120	C2
TR121	C2
TR122	C2
TR123	B2
TR124	B2
TR201	C1
TR202	C1
TR203	C1
TR281	B2
TR282	F3
TR283	F3
TR284	F3
TR285	F3
TR301	G3
TR302	G3
TR303	G3
TR304	G3
TR305	G3
TR306	G3
TR307	F3
TR308	F3
TR603	D1
TR604	D1
TR605	D1

CONNECTORs

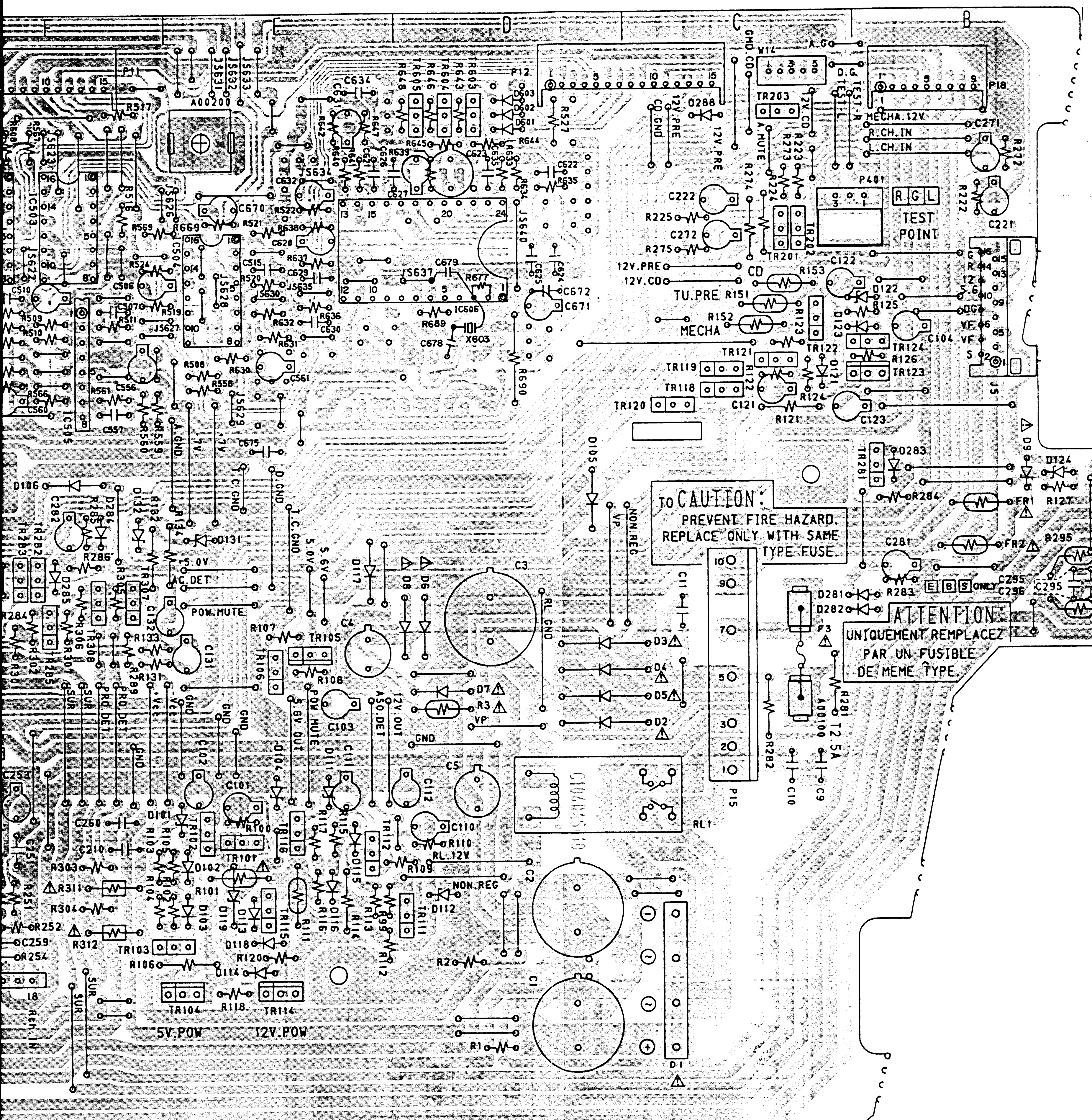
J5	B2
J201	B3
P11	F1
P12	C,D1
P15	C3
P18	B1
P401	B,C1

WIREs

W14	C1


1
2
3
4
5
H
G
F
R
L
FRONT SPEAKERS
SURROUND SPEAKERS
TM201
L204,L205,C2091~C2094 E B S ONLY
JS201~JS208 EXCEPT E B S
IC1
STK4142 MK2
Lch. OUT
Rch. OUT
SUR
P11
D106
R311
R312
TR103

MA

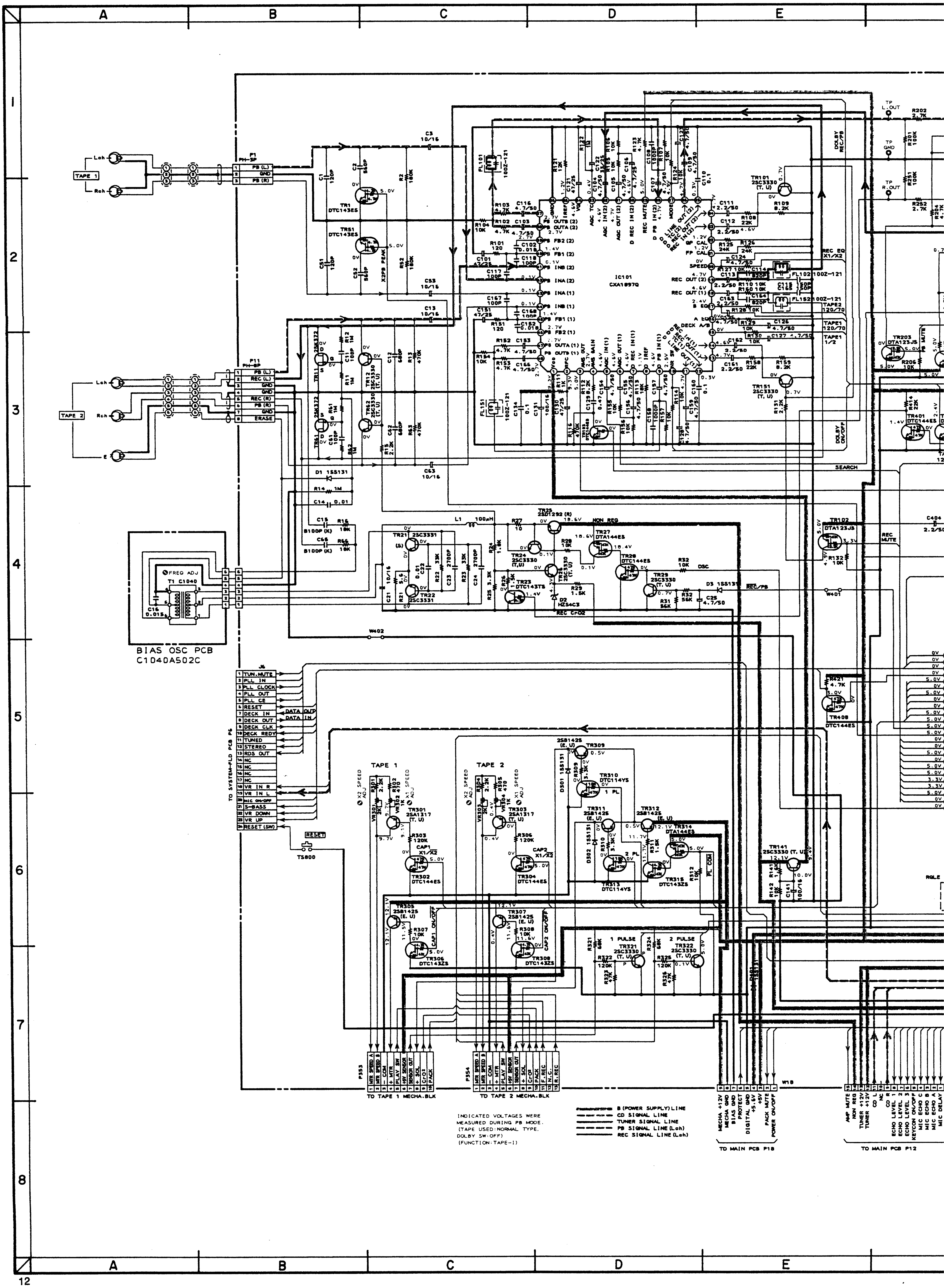

TO CAUTION:
PREVENT FIRE HAZARD.
REPLACE ONLY WITH SAME TYPE FUSE.
ATTENTION:
UNIQUEMENT REMPLACEZ PAR UN FUSIBLE DE MEME TYPE.
TEST POINT
PHONES
RGL
MECHA.12V
R.CH.IN
L.CH.IN
12V.PRE
12V.CD
TU.PRE
MECHA
5V.POW
12V.POW
F
E
D
C
B

MAIN PCB C1040A5010

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

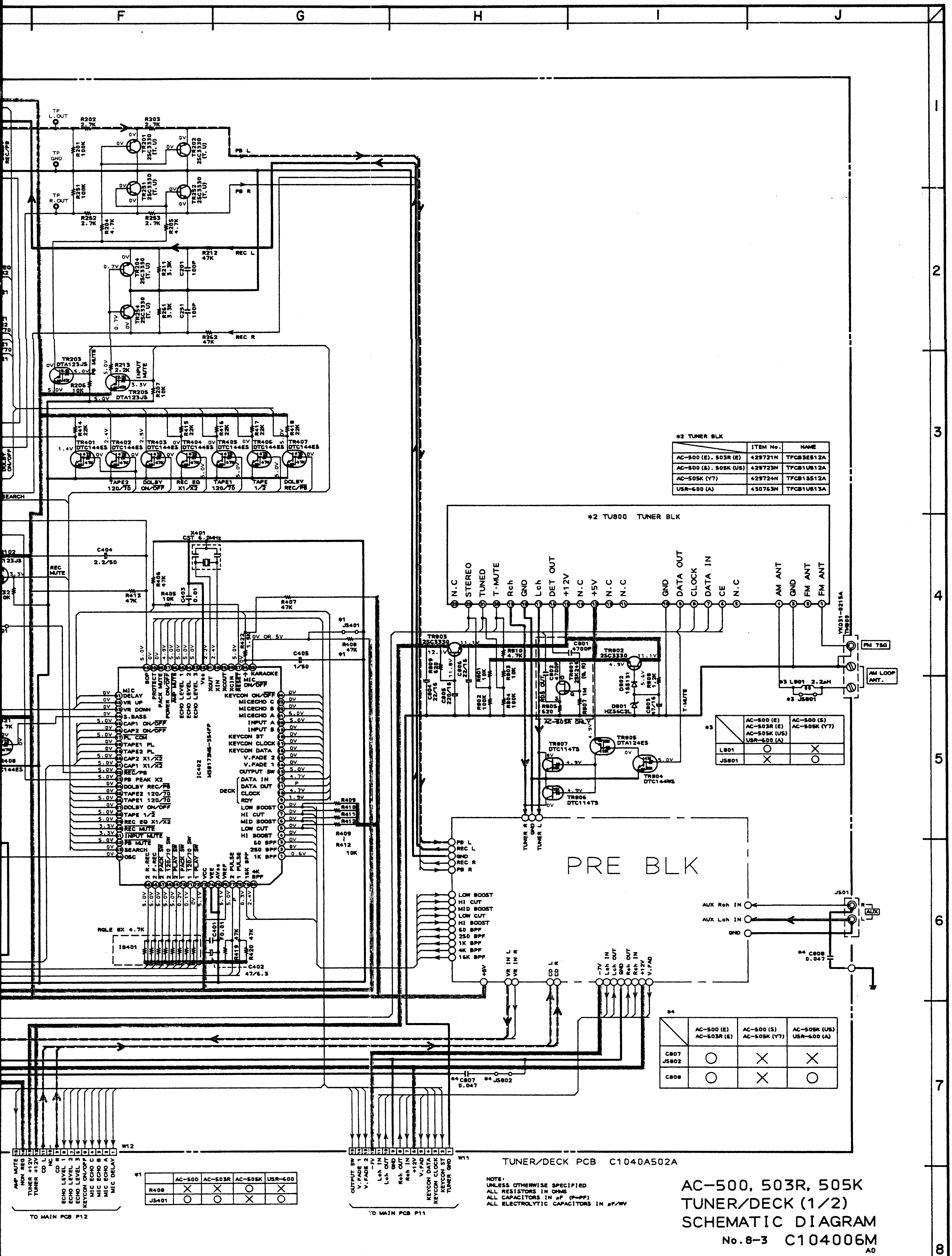
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.



INDICATED VOLTAGES WERE MEASURED DURING PB MODE.
(TAPE USED: NORMAL TYPE. DOLBY SW: OFF)
(FUNCTION: TAPE-I)

B (POWER SUPPLY) LINE
CD SIGNAL LINE
TUNER SIGNAL LINE
PB SIGNAL LINE (Lch)
REC SIGNAL LINE (Lch)

A
B
C
D
E
1
2
3
4
5
6
7
8
TAPE 1
Lch
Rch
P1 PH-3P
PB (L)
GND
PB (R)
TAPE 2
E
P11 PH-8P
REC (L)
REC (R)
ERASE
TR1 DTC143ES
TR51 DTC143ES
X2PB PEAK
IC101 CXA1897Q
FL101 100Z-121
FL151 100Z-121
FL102 100Z-121
FL152 100Z-121
TR101 2SC3330 (T, U)
TR151 2SC3330 (T, U)
REC EQ X1/X2
TAPE2 120/70
TAPE1 120/70
TAPE1 1/2
DOLBY REC/PB
DOLBY ON/OFF
SEARCH
TP L.OUT
TP GND
TP R.OUT
TR203 DTA123JS
TR401 DTC144ES
TR102 DTA123JS
REC MUTE
TR408 DTC144ES
BIAS OSC PCB C1040A502C
FREQ ADJ
T1 C1040
TR21 2SC3331
TR22 2SC3331
TR23 DTC143TS
TR24 2SC3330 (T,U)
TR25 2SD1292 (R)
TR26 2SC3330 (T, U)
TR27 DTA144ES
TR28 DTC144ES
TR29 2SC3330 (T, U)
D2 HZS4C3
REC CrO2
NON REG
OSC
D3 1SS131
REC/PB
D1 1SS131
W401
W402
J6
1 TUN. MUTE
2 PLL IN
3 PLL CLOCK
4 PLL OUT
5 PLL CE
6 RESET
7 DECK IN
8 DECK OUT
9 DECK CLK
10 DECK REDY
11 TUNED
12 STEREO
13 RDS OUT
14 NC
15 NC
16 NC
17 NC
18 VR IN R
19 VR IN L
20 MIC ON/OFF
21 S-BASS
22 VR DOWN
23 VR UP
24 RESET (SW)
DATA OUT
DATA IN
TO SYSTEM-FLD PCB P6
RESET
TS800
X2 SPEED ADJ
X1 SPEED ADJ
TR301 2SA1317 (T, U)
TR302 DTC144ES
TR303 2SA1317 (T, U)
TR304 DTC144ES
TR305 2SB1425 (E, U)
TR306 DTC143ZS
TR307 2SB1425 (E, U)
TR308 DTC143ZS
CAP1 X1/X2
CAP2 X1/X2
CAP1 ON/OFF
CAP2 ON/OFF
TR309 2SB1425 (E, U)
TR310 DTC114YS
TR311 2SB1425 (E, U)
TR312 2SB1425 (E, U)
TR313 DTC114YS
TR314 DTA144ES
TR315 DTC143ZS
1 PL
2 PL
PL COM
D301 1SS131
D302 1SS131
1 PULSE
2 PULSE
TR321 2SC3330 (T, U)
TR322 2SC3330 (T, U)
TR141 2SC3330 (T, U)
P353
1 MTR SPEED A
2 MTR SPEED B
3 - COM
4 + MTR
5 PLAY SW
6 +5V SENSOR
7 SENSOR OUT
8 + SOL
9 CrO2
10 PACK
TO TAPE 1 MECHA.BLK
P354
1 MTR SPEED A
2 MTR SPEED B
3 - COM
4 + MTR
5 PLAY SW
6 +5V SENSOR
7 SENSOR OUT
8 + SOL
9 CrO2
10 PACK
11 F.REC
12 N.C.
13 R.REC
TO TAPE 2 MECHA.BLK
W18
9 MECHA +12V
8 MECHA GND
7 BIAS GND
6 PROTECT
5 DIGITAL GND
4 +5.6V
3 +5V
2 PACK MUTE
1 POWER ON/OFF
TO MAIN PCB P18
15 AMP MUTE
14 NON REG
13 TUNER +12V
12 TUNER +12V
11 CD L
10 NC
9 CD R
8 ECHO LEVEL 1
7 ECHO LEVEL 2
6 ECHO LEVEL 3
5 KEYCON ON/OFF
4 MIC ECHO C
3 MIC ECHO B
2 MIC ECHO A
1 MIC DELAY
TO MAIN PCB P12


F
G
H
I
J
1
2
3
4
5
6
7
8
*2 TU800 TUNER BLK
N.C
STEREO
TUNED
T.MUTE
Rch
GND
Lch
DET OUT
+12V
+5V
DATA OUT
CLOCK
DATA IN
CE
AM ANT
FM ANT
FM 75Ω
AM LOOP ANT.
*3 L801 2.2μH
*3 JS801
IC402 M38173M6-354FP
X401 CST 6.0MHz
PRE BLK
PB L
REC L
GND
REC R
PB R
LOW BOOST
HI CUT
MID BOOST
LOW CUT
HI BOOST
60 BPF
250 BPF
1K BPF
4K BPF
15K BPF
AUX Rch IN
AUX Lch IN
J501
AUX
*4 C808 0.047
*4 C807 0.047
*4 JS802
W12
W11
TO MAIN PCB P12
TO MAIN PCB P11
TR201 2SC3330
TR202 2SC3330
TR251 2SC3330
TR252 2SC3330
TR203 DTA123JS
TR205 DTA123JS
TR204 2SC3330
TR254 2SC3330
TR401 DTC144ES
TR402 DTC144ES
TR403 DTC144ES
TR404 DTC144ES
TR405 DTC144ES
TR406 DTC144ES
TR407 DTC144ES
TR801 2SK246
TR802 2SC3330
TR803 2SC3330
TR804 DTC144WS
TR805 DTA124ES
TR806 DTC114TS
TR807 DTC114TS
D801 HZS6C2L
RGLE 8X 4.7K
IB401
*1 JS401

TUNER/DECK PCB C1040A502A

*2 TUNER BLK

	ITEM No.	NAME
AC-500 (E), 503R (E)	429721N	TFCB3ES12A
AC-500 (S), 505K (US)	429723N	TFCB1US12A
AC-505K (Y7)	429724N	TFCB1S512A
USR-600 (A)	430763N	TFCB1US13A

*3

	AC-500 (E) AC-503R (E) AC-505K (US) USR-600 (A)	AC-500 (S) AC-505K (Y7)
L801	○	×
JS801	×	○

*4

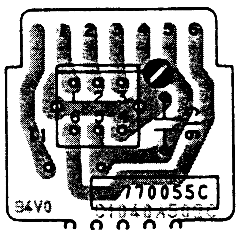
	AC-500 (E) AC-503R (E)	AC-500 (S) AC-505K (Y7)	AC-505K (US) USR-600 (A)
C807 JS802	○	×	×
C808	○	×	○

*1

	AC-500	AC-503R	AC-505K	USR-600
R408	×	×	○	×
JS401	○	○	×	○

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

AC-500, 503R, 505K
TUNER/DECK (1/2)
SCHEMATIC DIAGRAM
No.8-3 C104006M
A0


94V0
770055C

BIAS OSC PCB
C1040A502C

PRINCIPAL PARTS LOCATION

ICs

IC101	D2,3
IC402	C5,6
IC501	F6,7
IC502	E6
IC601	E6
IC701	E5
IC702	E4
IC703	F4
IC704	F4,5

WIREs

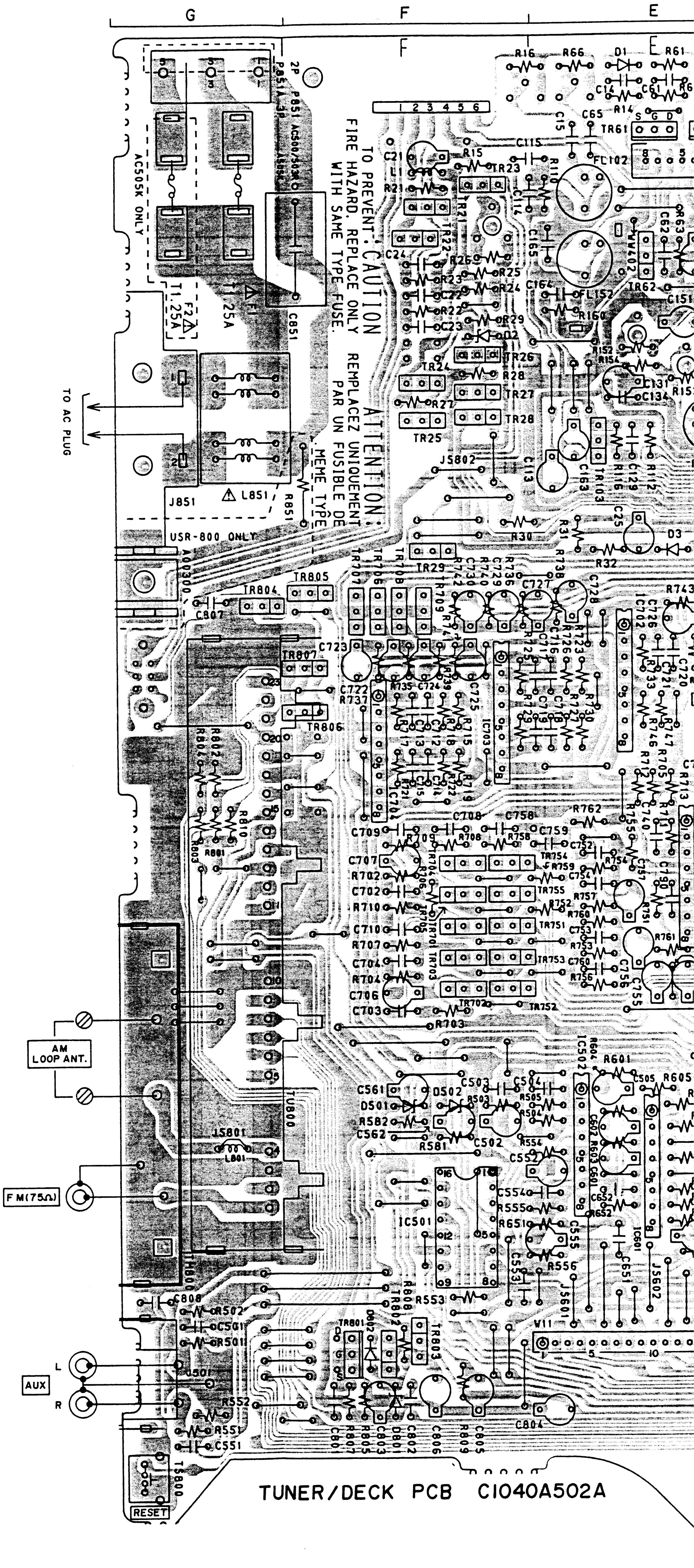
W11	E7
W12	D7
W18	B7

CONNECTORs

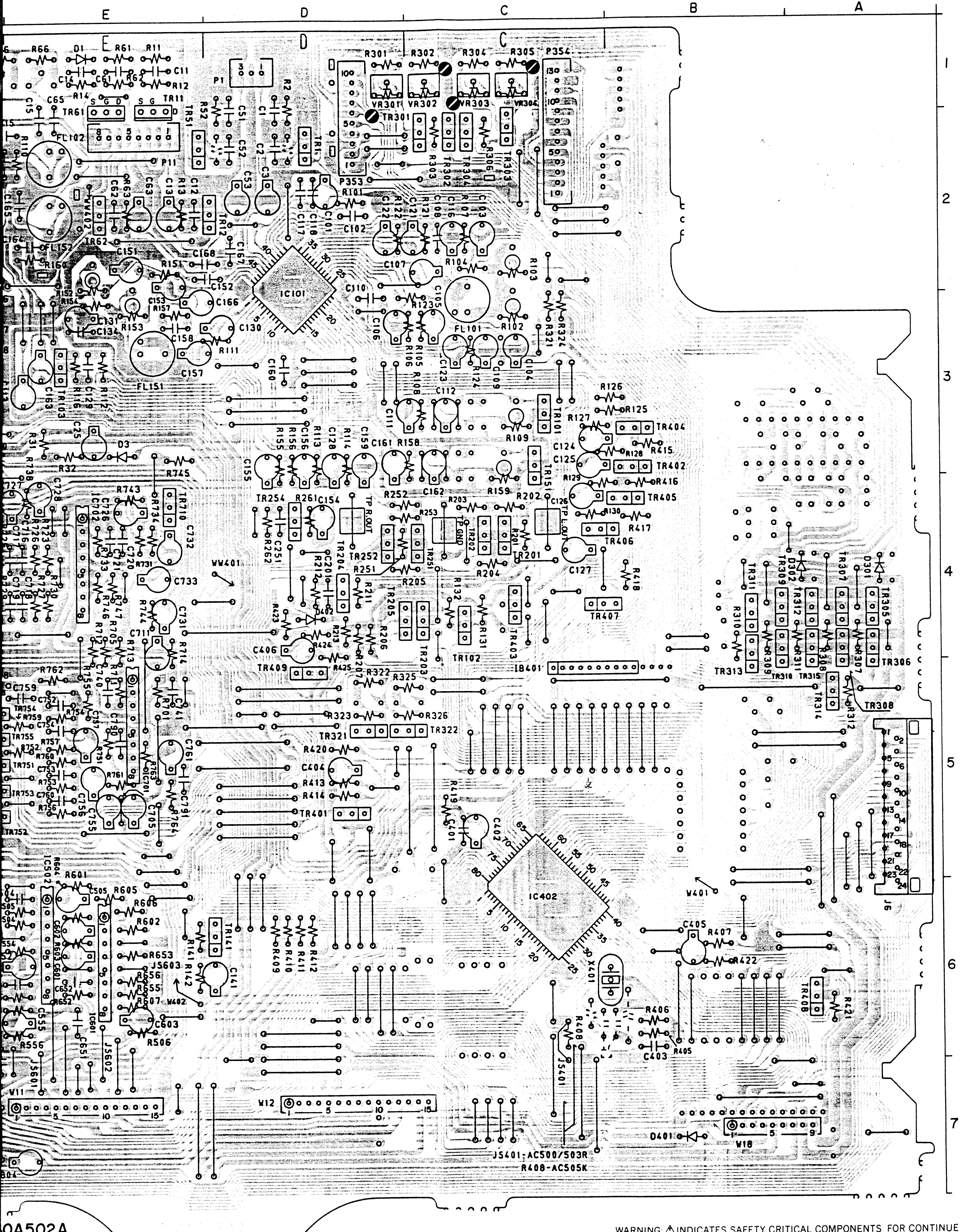
J6	A5,6
P1	D1
P11	E2
P353	D1,2
P354	C1,2
P851	G1

TRANSISTORs

TR1	D2
TR11	E1,2
TR12	D2
TR21	F2
TR22	F2
TR23	F2
TR24	F3
TR25	F3
TR26	F2,3
TR27	F3
TR28	F3
TR29	F3,4
TR51	D,E2
TR61	E1,2
TR62	E2
TR101	C3
TR102	C4
TR103	E3
TR141	D,E6
TR151	C3,4
TR201	C4
TR202	C4
TR203	C4
TR204	D4
TR205	D4
TR251	D4
TR252	D4
TR254	D4
TR301	C2
TR302	C2
TR303	C2
TR304	C2
TR305	A4
TR306	A4,5
TR307	A4
TR308	A4,5
TR309	B4
TR310	B4,5
TR311	B4
TR312	B4
TR313	B4,5
TR314	A5
TR315	B4,5
TR321	D5
TR322	C5
TR401	D5
TR402	B3,4
TR403	C4
TR404	B3
TR405	B4
TR406	B,C4
TR407	B,C4
TR408	A,B6
TR409	D4,5
TR701	F5
TR702	F5
TR703	F5
TR704	F5
TR705	F5
TR706	F4
TR707	F4
TR708	F4
TR709	F4
TR710	E4
TR751	E,F5
TR752	E,F5
TR753	E,F5
TR754	E,F5
TR755	E,F5
TR801	F7
TR802	F7
TR803	F7
TR804	G4
TR805	F4
TR806	F,G4
TR807	F,G4


G
F
E
TO PREVENT CAUTION
FIRE HAZARD, REPLACE ONLY
WITH SAME TYPE FUSE.
ATTENTION:
REMPLACEZ UNIQUEMENT
PAR UN FUSIBLE DE
MEME TYPE
AC505K ONLY
P851 AC500/505K
P851A 3P
2P
T1.25A
F2
F1
C851
J851
L851
R851
USR-800 ONLY
TO AC PLUG
AM LOOP ANT.
FM(75Ω)
AUX
L
R
RESET
IC501
IC502
IC601
IC701
IC702
IC703
IC704
JS801
JS802
W11
TU800
TS800

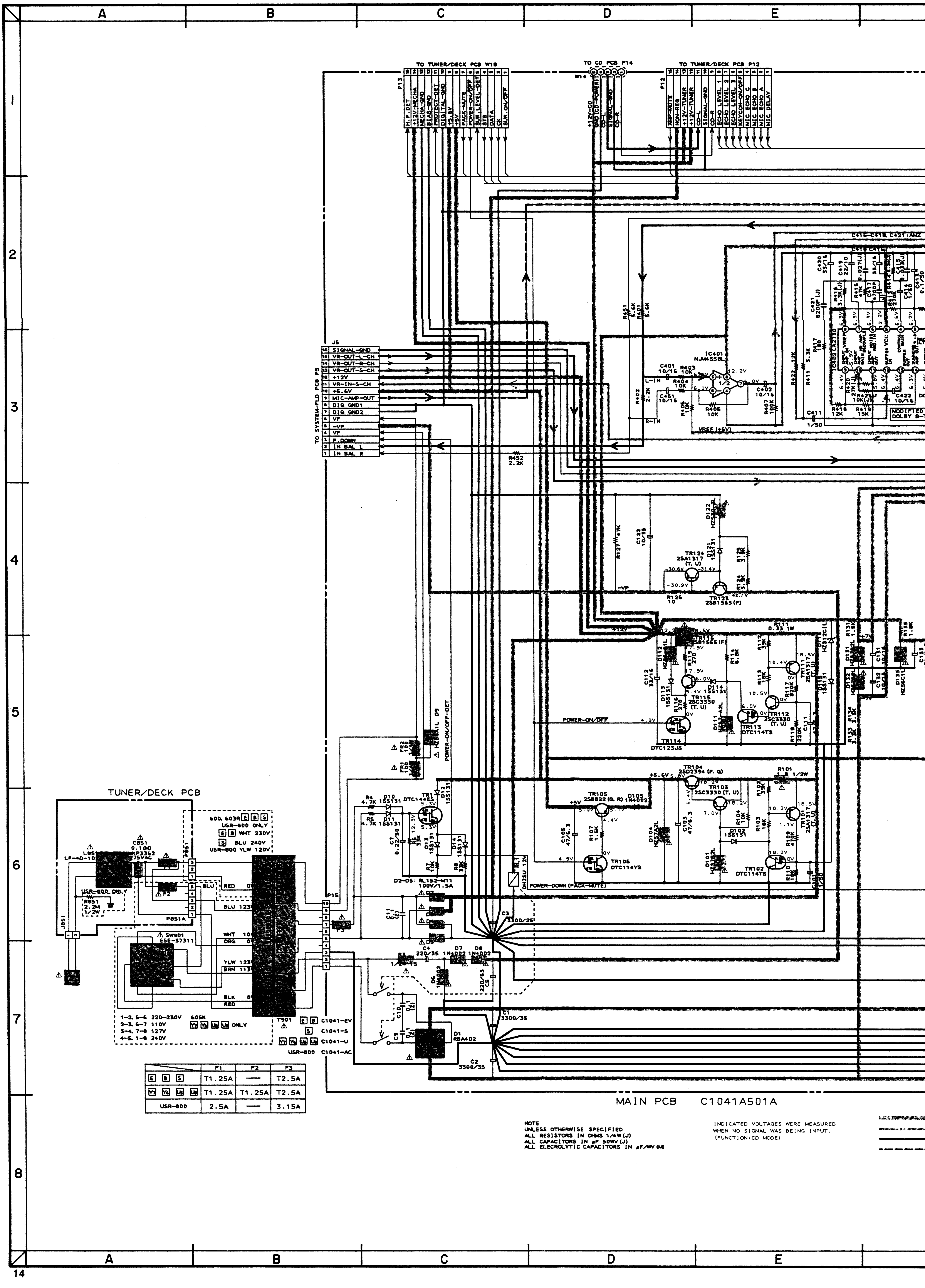
TUNER/DECK PCB C1040A502A


E
D
C
B
A
1
2
3
4
5
6
7
IC101
IC402
IB401
X401
J6
W11
W12
W18
WW401
W401
W402
TP R.OUT
TP GND
TP L.OUT
JS401-AC500/503R
R408-AC505K
0A502A

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.



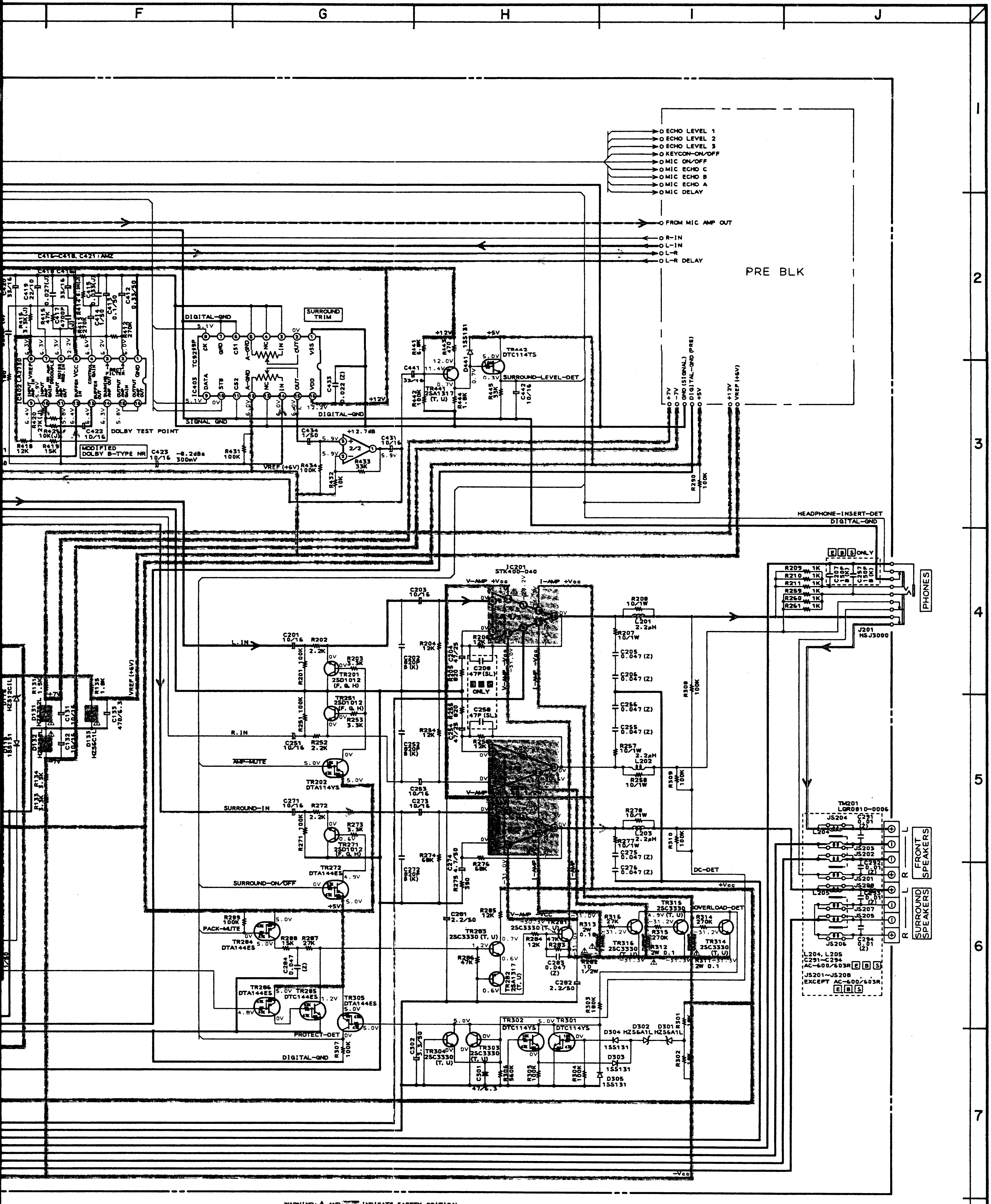
A
B
C
D
E
1
2
3
4
5
6
7
8
TO TUNER/DECK PCB W18
P13
H.P.DET
+12V-MECHA
MECHA-GND
BIAS-GND
PROTECT-DET
DIGITAL-GND
+5.6V
+5V
PACK-MUTE
POWER-ON/OFF
SUR.LEVEL-DET
STB
DATA
CK
SUR.ON/OFF
TO CD PCB P14
W14
+12V-CD
GND(CD-POWER)
CD-L
SIGNAL-GND
CD-R
TO TUNER/DECK PCB P12
P12
AMP-MUTE
NON-REG
+12V-TUNER
+12V-TUNER
CD-L
SIGNAL-GND
CD-R
ECHO LEVEL 1
ECHO LEVEL 2
ECHO LEVEL 3
KEYCON-ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY
TO SYSTEM-FLD PCB P5
J5
SIGNAL-GND
VR-OUT-L-CH
VR-OUT-R-CH
VR-OUT-S-CH
+12V
VR-IN-S-CH
+5.6V
MIC-AMP-OUT
DIG GND1
DIG GND2
VF
-VP
VF
P.DOWN
IN BAL L
IN BAL R
IC401 NJM4558L
IC402 LA2730
MODIFIED DOLBY B
TR124 2SA1317
TR123 2SB1565(F)
TR116 2SB1565(F)
TR115 2SC3330
TR114 DTC123JS
TR113 DTC114TS
TR112 2SC3330
TR111 2SA1317
TR104 2SD2394(F,G)
TR103 2SC3330(T,U)
TR105 2SB822(Q,R)
TR106 DTC114YS
TR102 DTC114TS
TR101 2SA1317
TR1 DTC144ES
POWER-ON/OFF
POWER-DOWN (PACK-MUTE)
RL1 DH2SU 12V
D2-D5: RL152-M11 100V/1.5A
D1 RBA402
C1 3300/35
C2 3300/35
C3 3300/25
TUNER/DECK PCB
SW901 ESE-37311
T901
P851A
LF-40-10
USR-800 ONLY
1-2, 5-6 220-230V
2-3, 6-7 110V
3-4, 7-8 127V
4-5, 1-8 240V
605K
Y7 Yc Us Ue ONLY
E B C1041-EV
S C1041-S
Y7 Yc Us Ue C1041-U
USR-800 C1041-AC

	F1	F2	F3
E B S	T1.25A	—	T2.5A
Y7 Yc Us Ue	T1.25A	T1.25A	T2.5A
USR-800	2.5A	—	3.15A

MAIN PCB C1041A501A

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)
ALL ELECROLYTIC CAPACITORS IN μF/WV (M)

INDICATED VOLTAGES WERE MEASURED
WHEN NO SIGNAL WAS BEING INPUT.
(FUNCTION:CD MODE)


F
G
H
I
J
1
2
3
4
5
6
7
8
O ECHO LEVEL 1
O ECHO LEVEL 2
O ECHO LEVEL 3
O KEYCON-ON/OFF
O MIC ON/OFF
O MIC ECHO C
O MIC ECHO B
O MIC ECHO A
O MIC DELAY
O FROM MIC AMP OUT
O R-IN
O L-IN
O L-R
O L-R DELAY
PRE BLK
C416-C418, C421:AMZ
DIGITAL-GND
SURROUND TRIM
TC9235P
SIGNAL GND
DOLBY TEST POINT
MODIFIED DOLBY B-TYPE NR
C423 10/16 -8.2dBs 300mV
VREF(+6V)
TR441 2SA1317 (T, U)
TR442 DTC114TS
SURROUND-LEVEL-DET
D441 1SS131
+12V
+5V
+12.7dB
R290 100K
HEADPHONE-INSERT-DET
DIGITAL-GND
E B S ONLY
R209 1K
R210 1K
R211 1K
R259 1K
R260 1K
R261 1K
PHONES
J201 HSJ3000
IC201 STK400-040
V-AMP +Vcc
I-AMP +Vcc
R208 10/1W
L201 2.2μH
R207 10/1W
C205 0.047 (Z)
C206 0.047 (Z)
C256 0.047 (Z)
C255 0.047 (Z)
R257 10/1W
L202 2.2μH
R258 10/1W
R278 10/1W
L203 2.2μH
R277 10/1W
C275 0.047 (Z)
C276 0.047 (Z)
R308 100K
R309 100K
R310 100K
DC-DET
+Vcc
L.IN
C201 10/16
R202 2.2K
R201 100K
TR201 2SD1012 (F, G, H)
TR251 2SD1012 (F, G, H)
R.IN
C251 10/16
R252 2.2K
R251 100K
AMP-MUTE
TR202 DTA114YS
SURROUND-IN
C271 10/16
R272 2.2K
R271 100K
TR271 2SD1012 (F, G, H)
TR272 DTA144ES
SURROUND-ON/OFF
C203 10/16
C253 10/16
C273 10/16
C206 47P (SL)
C258 47P (SL)
E B S ONLY
R276 68K
R275 4.7/50
C281 2.2/50
R285 12K
TR283 2SC3330 (T, U)
TR281 2SC3330 (T, U)
TR282 2SA1317 (T, U)
C283 0.047 (Z)
C282 2.2/50
R303 180K
TR315 2SC3330
TR316 2SC3330
TR314 2SC3330
R315 27K
R314 270K
R313 2W 0.1
R312 2W 0.1
OVERLOAD-DET
R289 100K
PACK-MUTE
TR284 DTA144ES
R288 15K
R287 27K
C284 0.047 (Z)
TR286 DTA144ES
TR285 DTC144ES
TR305 DTA144ES
PROTECT-DET
R307 100K
DIGITAL-GND
C302 3.3/50
TR304 2SC3330 (T, U)
TR303 2SC3330 (T, U)
C301 47/6.3
R306 560K
TR302 DTC114YS
TR301 DTC114YS
D304 1SS131
D302 HZS6A1L
D301 HZS6A1L
D303 1SS131
D305 1SS131
R301
R302
TM201 LGR0810-0006
FRONT SPEAKERS
SURROUND SPEAKERS
L204, L205 C291-C294 AC-600/603R E B S
JS201-JS208 EXCEPT AC-600/603R E B S
D131 HZS12L
D132 HZS6C1L
D133 HZS6C1L
C133 470/6.3
R135 1K
R131 1.5K
R133 3.3K
R134 3.3K
-Vcc

SURED
PUT.

▨ B (POWER SUPPLY) LINE
— - - — L-R (SURROUND) SIGNAL LINE
——— Lch AUDIO SIGNAL LINE
— — — — MIC SIGNAL LINE

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

AC-600, 603R, 605K
MAIN (1/2)
(POWER SUPPLY
& POWER AMP BLK)
SCHEMATIC DIAGRAM
No. 8-4 C104004M
A0

PRINCIPAL PARTS LOCATION

ICs

IC201	H,G5
IC401	B1
IC402	C2
IC403	C2,3
IC503	F1,2
IC504	F2
IC505	F2
IC506	G2
IC602	G1,2
IC603	G1,2
IC604	H1,2
IC605	G1
IC606	E2

TRANSISTORs

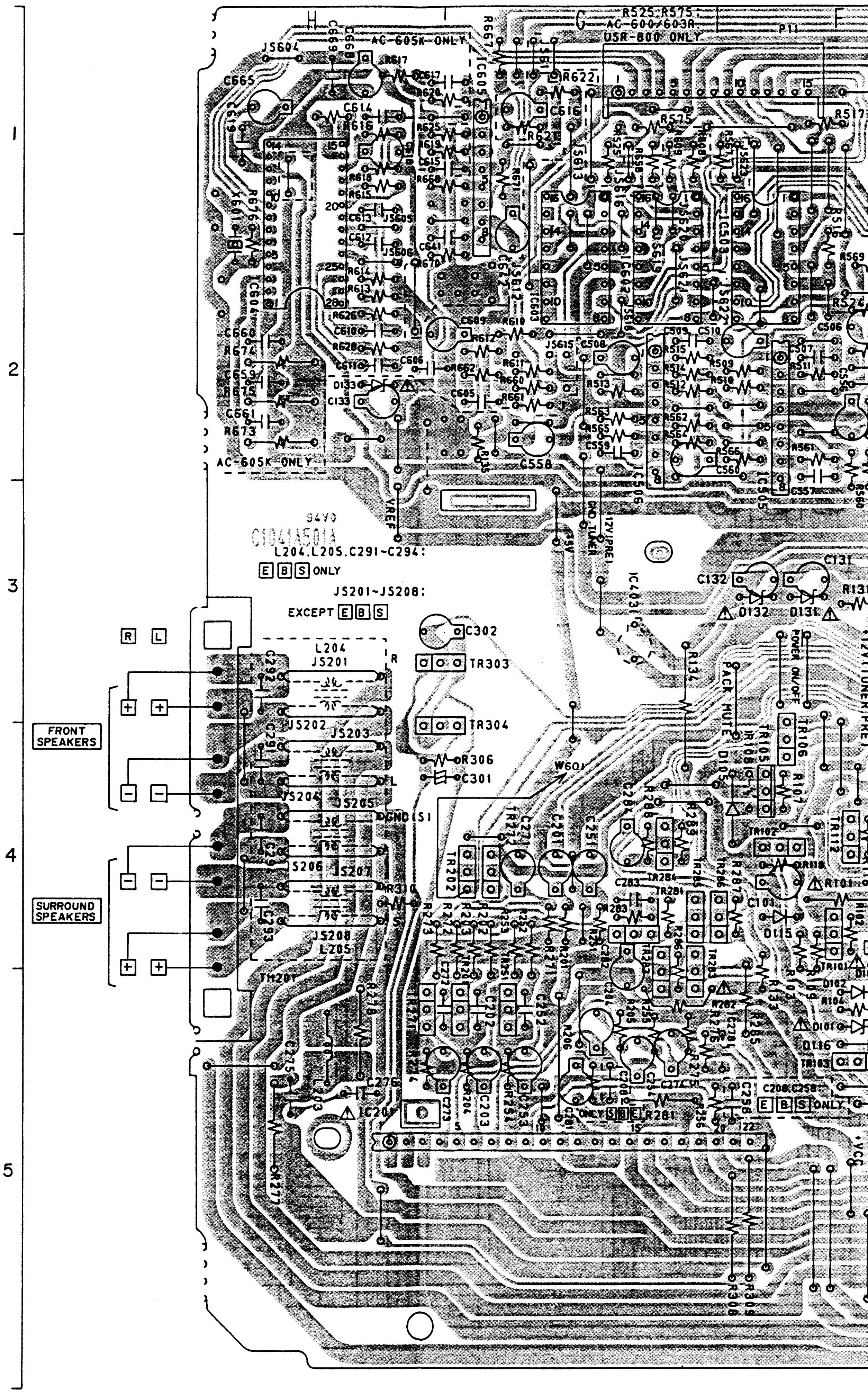
TR1	E3,4
TR101	F4
TR102	F4
TR103	F5
TR104	F5
TR105	F4
TR106	F4
TR111	F4
TR112	F4
TR113	F4
TR114	F4
TR115	F5
TR116	E5
TR123	C4
TR124	C4
TR201	H,G5
TR202	G4
TR251	G5
TR271	H5
TR272	G4
TR281	G4
TR282	G4,5
TR283	G4,5
TR284	G4
TR285	G4
TR286	G4
TR301	E4
TR302	E4
TR303	H3
TR304	H3,4
TR305	F3,4
TR314	E4,5
TR315	E5
TR316	E4,5
TR441	B1
TR442	C1,2
TR603	E1
TR604	E1
TR605	E1
TR606	E1
TR607	E1
TR608	D2
TR609	E2
TR610	D2
TR611	D1
TR612	D1,2

CONNECTORs

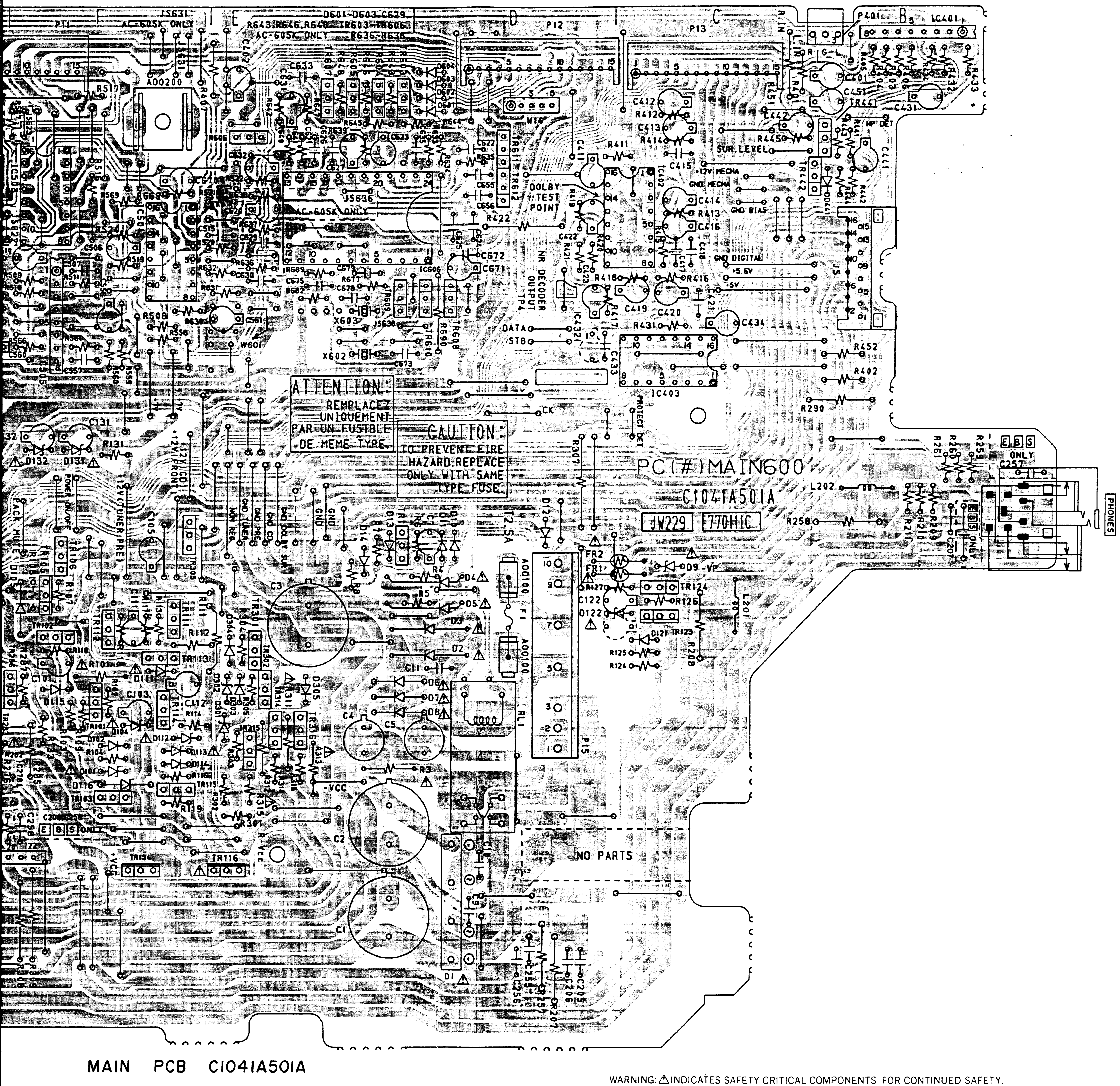
J5	B2
J201	B3,4
P11	G,F1
P12	D1
P13	C1
P15	D4
P401	B,C1

WIREs

W14	D1


1
2
3
4
5
R525.R575: AC-600/603A: USR-800 ONLY
AC-605K-ONLY
AC-605K ONLY
94V0
C1041A501A
L204.L205.C291~C294: E B S ONLY
JS201~JS208: EXCEPT E B S
R
L
FRONT SPEAKERS
SURROUND SPEAKERS
L204
JS201
JS202
JS203
JS204
JS205
JS206
JS207
JS208
L205
TM201
C302
TR303
TR304
R306
C301
W601
GND(S)
IC201
IC403
D132
D131
C131
C132
POWER ON/OFF
PACK MUTE
12V/TUNER/PRE1
VREF
GND TUNER
12V/PRE
+5V
C208.C258: E B S ONLY
ONLY S B E
VCC
P11
R517
R622
IC605
R667
JS604
C665
C660
C659
C661
R673
C558
R308

MAI

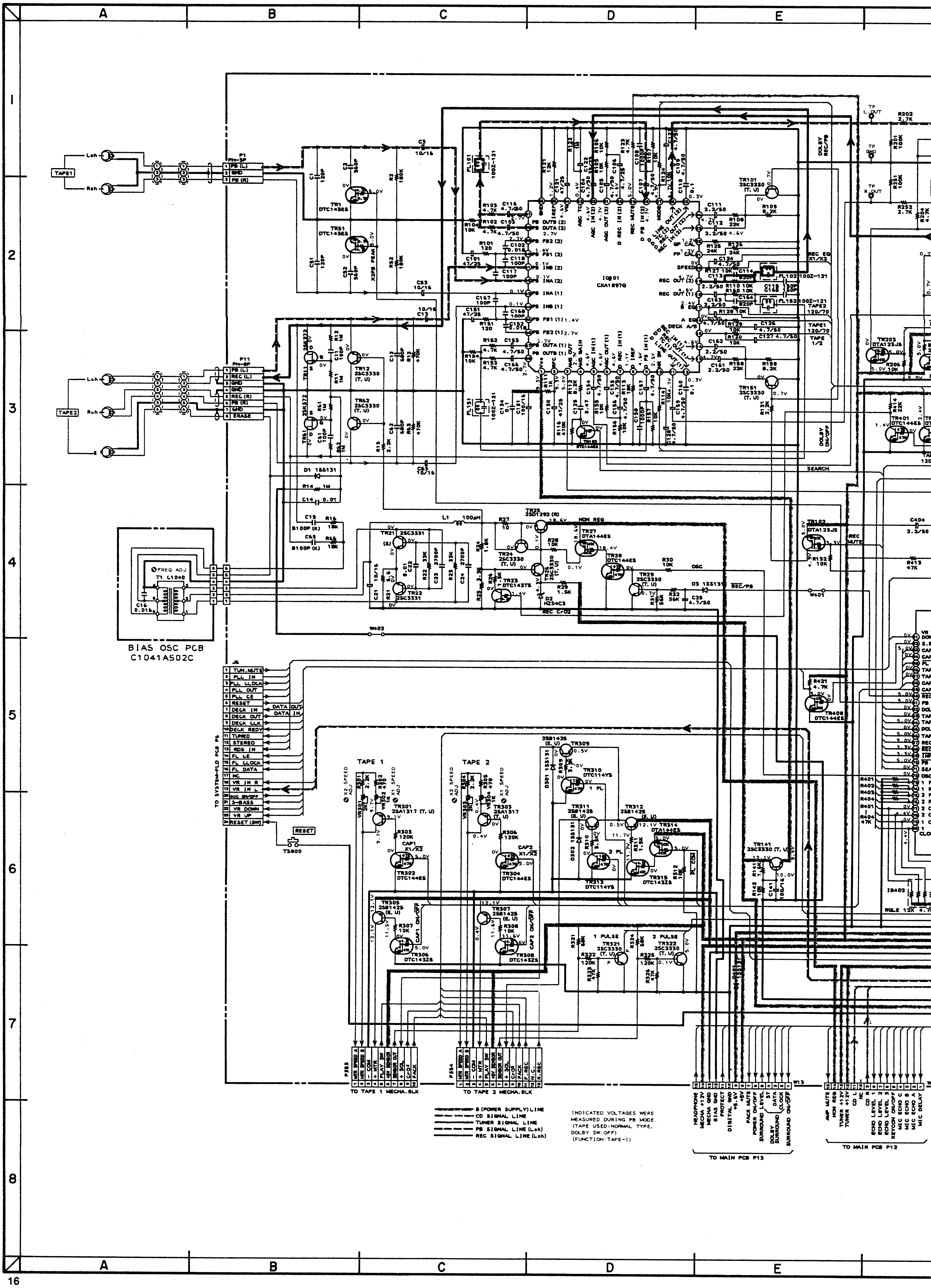

ATTENTION:
REMPLACEZ UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE.
CAUTION:
TO PREVENT FIRE HAZARD REPLACE ONLY WITH SAME TYPE FUSE.
PC(#)MAIN600
C1041A501A
JW229
770111C
NO PARTS
PHONES
DOLBY TEST POINT
NR DECODER OUTPUT TP4
SUR. LEVEL
GND DIGITAL
AC-605K ONLY
P11
P12
P13
P15
P401
IC403
RL1
F1
D1
C1
C2
C3
C4
C5
E B S ONLY

MAIN PCB C1041A501A

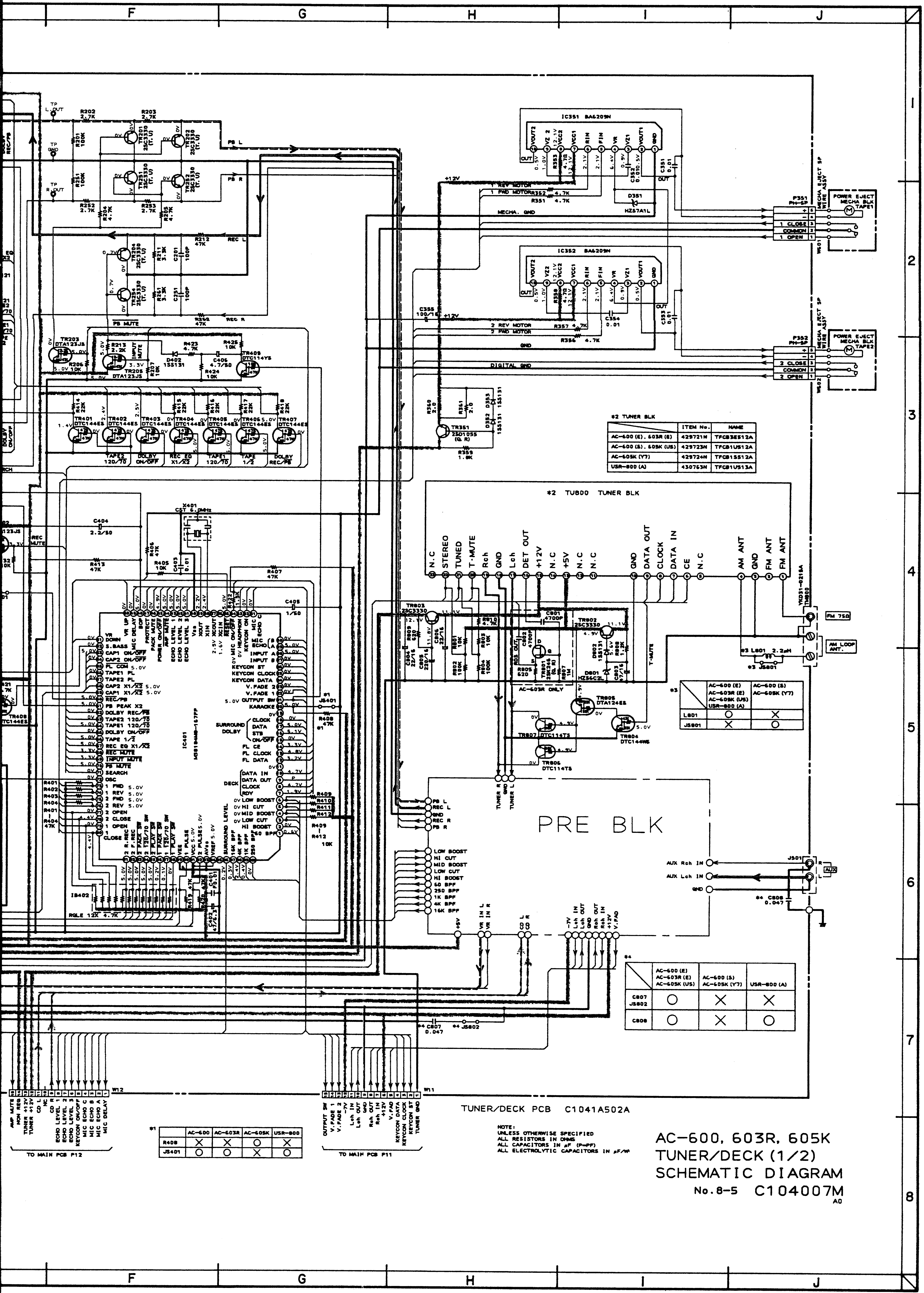
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.


A
B
C
D
E
1
2
3
4
5
6
7
8
TAPE1
Lch
Rch
TAPE2
E
P3 PH-3P
PB (L)
GND
PB (R)
P11 PH-8P
PB (L)
REC (L)
GND
GND
REC (R)
PB (R)
GND
ERASE
TR1 DTC143ES
TRS1 DTC143ES
TR11 2SK372
TR12 2SC3330 (T, U)
TR51 2SK372
TR62 2SC3330 (T, U)
IC101 CXA1897Q
TR101 2SC3330 (T, U)
TR151 2SC3330 (T, U)
TR153 DTC144ES
FL101 100Z-121
FL102 100Z-121
FL151 100Z-121
FL152 100Z-121
DOLBY REC/PB
DOLBY ON/OFF
REC EQ X1/X2
TAPE2 120/70
TAPE1 120/70
TAPE 1/2
SEARCH
TP L OUT
TP GND
TP R OUT
TR203 DTA123JS
TR401 DTC144ES
D1 1SS131
BIAS OSC PCB
C1D41A502C
FREQ ADJ
T1 C1040
L1 100μH
TR21 2SC3331
TR22 2SC3331
TR23 DTC143TS
TR24 2SC3330 (T, U)
TR25 2SD1292 (R)
TR26 2SC3330 (T, U)
TR27 DTA144ES
TR28 DTC144ES
TR29 2SC3330 (T, U)
D2 HZS4C3
D3 1SS131
NON REG
OSC
REC/PB
REC CrO2
W401
W402
TR102 DTA123JS
REC MUTE
TR408 DTC144ES
R421 4.7K
J6
TUN.MUTE
PLL IN
PLL CLOCK
PLL OUT
PLL CE
RESET
DECK IN
DECK OUT
DECK CLK
DECK REDY
TUNED
STEREO
RDS IN
FL CE
FL CLOCK
FL DATA
VR IN R
VR IN L
MIC ON/OFF
S-BASS
VR DOWN
VR UP
RESET (SW)
DATA OUT
DATA IN
TO SYSTEM-FLD PCB P6
RESET
TS800
TAPE 1
TAPE 2
X2 SPEED ADJ
X1 SPEED ADJ
VR301
VR302
VR303
VR304
TR301 2SA1317 (T, U)
TR302 DTC144ES
TR303 2SA1317 (T, U)
TR304 DTC144ES
CAP1 X1/X2
CAP2 X1/X2
TR305 2SB1425 (E, U)
TR306 DTC143ZS
TR307 2SB1425 (E, U)
TR308 DTC143ZS
CAP1 ON/OFF
CAP2 ON/OFF
TR309 2SB1425 (E, U)
TR310 DTC114YS
TR311 2SB1425 (E, U)
TR312 2SB1425 (E, U)
TR313 DTC114YS
TR314 DTA144ES
TR315 DTC143ZS
D301 1SS131
D302 1SS131
1 PL
2 PL
PL CON
TR321 2SC3330 (T, U)
TR322 2SC3330 (T, U)
1 PULSE
2 PULSE
TR141 2SC3330 (T, U)
IB402
P353
MTR SPEED A
MTR SPEED B
- COM
+ MTR
PLAY SW
+9V SENSOR
SENSOR OUT
+ SOL
CrO2
PACK
TO TAPE 1 MECHA.BLK
P354
MTR SPEED A
MTR SPEED B
- COM
+ MTR
PLAY SW
+9V SENSOR
SENSOR OUT
+ SOL
CrO2
PACK
F. REC
N.C.
R.REC
TO TAPE 2 MECHA.BLK
W13
HEADPHONE
MECHA +12V
MECHA GND
BIAS GND
PROTECT
DIGITAL GND
+5.6V
+5V
PACK MUTE
POWER ON/OFF
SURROUND LEVEL
ST
DATA
CLOCK
DOLBY SURROUND
SURROUND ON/OFF
TO MAIN PCB P13
AMP MUTE
NON REG
TUNER +12V
TUNER +12V
CD L
NC
CD R
ECHO LEVEL 1
ECHO LEVEL 2
ECHO LEVEL 3
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY
TO MAIN PCB P12
B (POWER SUPPLY) LINE
CD SIGNAL LINE
TUNER SIGNAL LINE
PB SIGNAL LINE (Lch)
REC SIGNAL LINE (Lch)

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.
(TAPE USED: NORMAL TYPE, DOLBY SW: OFF)
(FUNCTION: TAPE-1)


F
G
H
I
J
1
2
3
4
5
6
7
8
IC351 BA6209N
IC352 BA6209N
TR201 2SC3330
TR202 2SC3330
TR251 2SC3330
TR252 2SC3330
TR204 2SC3330
TR254 2SC3330
TR203 DTA123JS
TR205 DTA123JS
TR409 DTC114YS
TR401 DTC144ES
TR402 DTC144ES
TR403 DTC144ES
TR404 DTC144ES
TR405 DTC144ES
TR406 DTC144ES
TR407 DTC144ES
TR351 2SD1055
X401 CST 6.0MHz
IC401 M50194MS-157FP
PB L
PB R
REC L
REC R
PB MUTE
1 REV MOTOR
1 FWD MOTOR
2 REV MOTOR
2 FWD MOTOR
MECHA. GND
DIGITAL GND
P351 PH-5P
P352 PH-5P
POWER EJECT MECHA BLK TAPE1
POWER EJECT MECHA BLK TAPE2
MECHA EJECT SP WIRE ASSY
1 CLOSE
COMMON
1 OPEN
2 CLOSE
2 OPEN
*2 TU800 TUNER BLK
N.C
STEREO
TUNED
T-MUTE
Rch
GND
Lch
DET OUT
+12V
+5V
DATA OUT
CLOCK
DATA IN
CE
AM ANT
FM ANT
FM 75Ω
AM LOOP ANT.
TR803 2SC3330
TR802 2SC3330
TR801 2SK246
TR805 DTA124ES
TR807 DTC114TS
TR806 DTC114TS
TR804 DTC144WS
D802 1SS131
D801 HZS6C2L
AC-603R ONLY
PRE BLK
LOW BOOST
HI CUT
MID BOOST
LOW CUT
HI BOOST
60 BPF
250 BPF
1K BPF
4K BPF
16K BPF
AUX Rch IN
AUX Lch IN
JS501
AUX
TO MAIN PCB P12
TO MAIN PCB P11
W11
W12
OUTPUT SW
V.FADE 1
V.FADE 2
-7V
Lch IN
Lch OUT
Rch OUT
Rch IN
V.FAD
KEYCON DATA
KEYCON CLOCK
KEYCON ST
TUNER GND
AMP MUTE
MON REG
TUNER +12V
TUNER +5V
CD L
CD R
ECHO LEVEL 1
ECHO LEVEL 2
ECHO LEVEL 3
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY

*2 TUNER BLK

	ITEM No.	NAME
AC-600 (E), 603R (E)	429721N	TFCB3ES12A
AC-600 (S), 605K (US)	429723N	TFCB1US12A
AC-605K (Y7)	429724N	TFCB1SS12A
USR-800 (A)	430763N	TFCB1US13A

*3

	AC-600 (E) AC-603R (E) AC-605K (US) USR-800 (A)	AC-600 (S) AC-605K (Y7)
L801	○	×
JS801	×	○

*4

	AC-600 (E) AC-603R (E) AC-605K (US)	AC-600 (S) AC-605K (Y7)	USR-800 (A)
C807 JS802	○	×	×
C808	○	×	○

*1

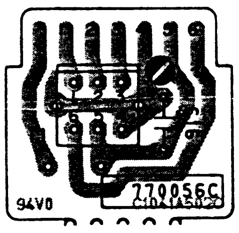
	AC-600	AC-603R	AC-605K	USR-800
R408	×	×	○	×
JS401	○	○	×	○

TUNER/DECK PCB C1041A502A

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/W

AC-600, 603R, 605K
TUNER/DECK (1/2)
SCHEMATIC DIAGRAM

No.8-5 C104007M
A0


94V0
770056C
C1041A502C

BIAS OSC PCB
C1041A502C

PRINCIPAL PARTS LOCATION

ICs

IC101	D2,3
IC351	A,B4
IC352	A,B3
IC401	C5,6
IC501	F6,7
IC502	E6
IC601	E6
IC701	E5
IC702	E4
IC703	F4
IC704	F4,5

WIREs

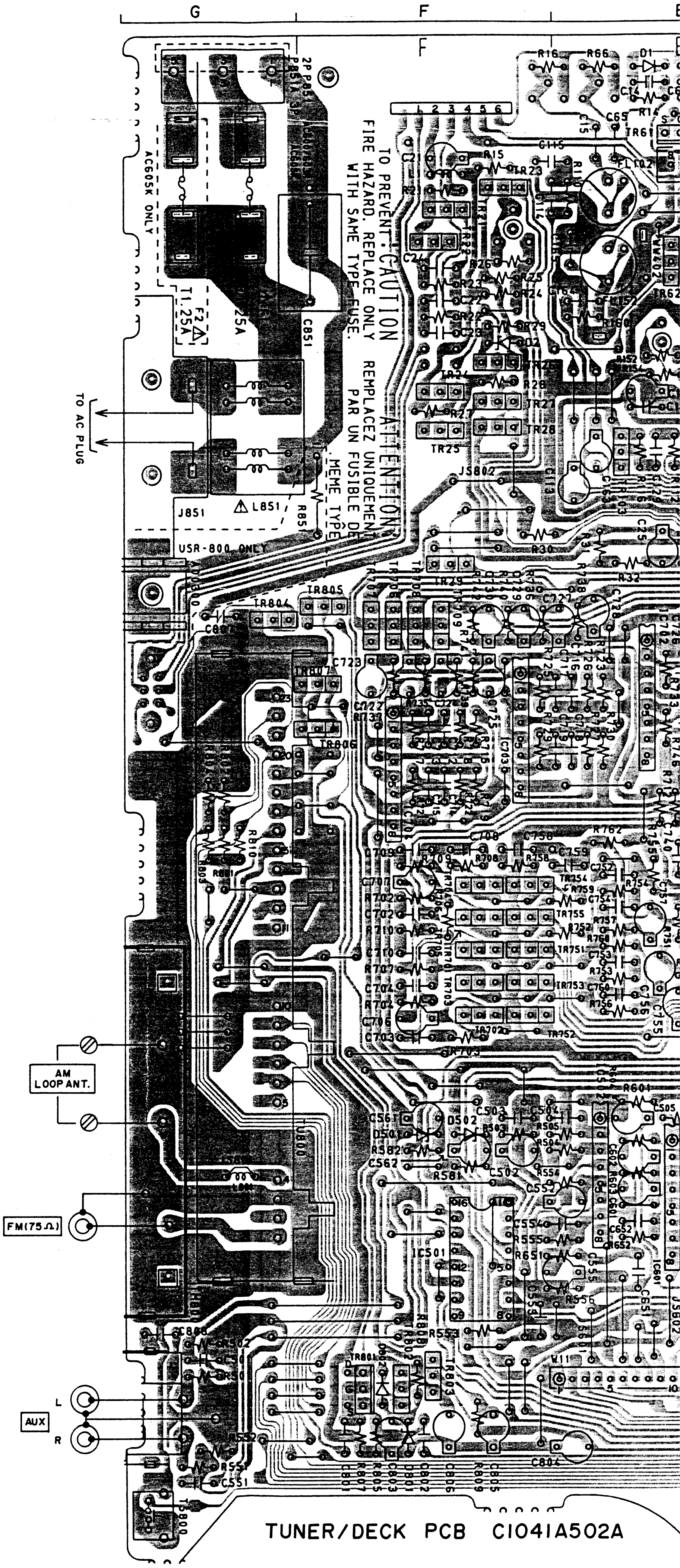
W11	E7
W12	D7
W13	A,B7

CONNECTORs

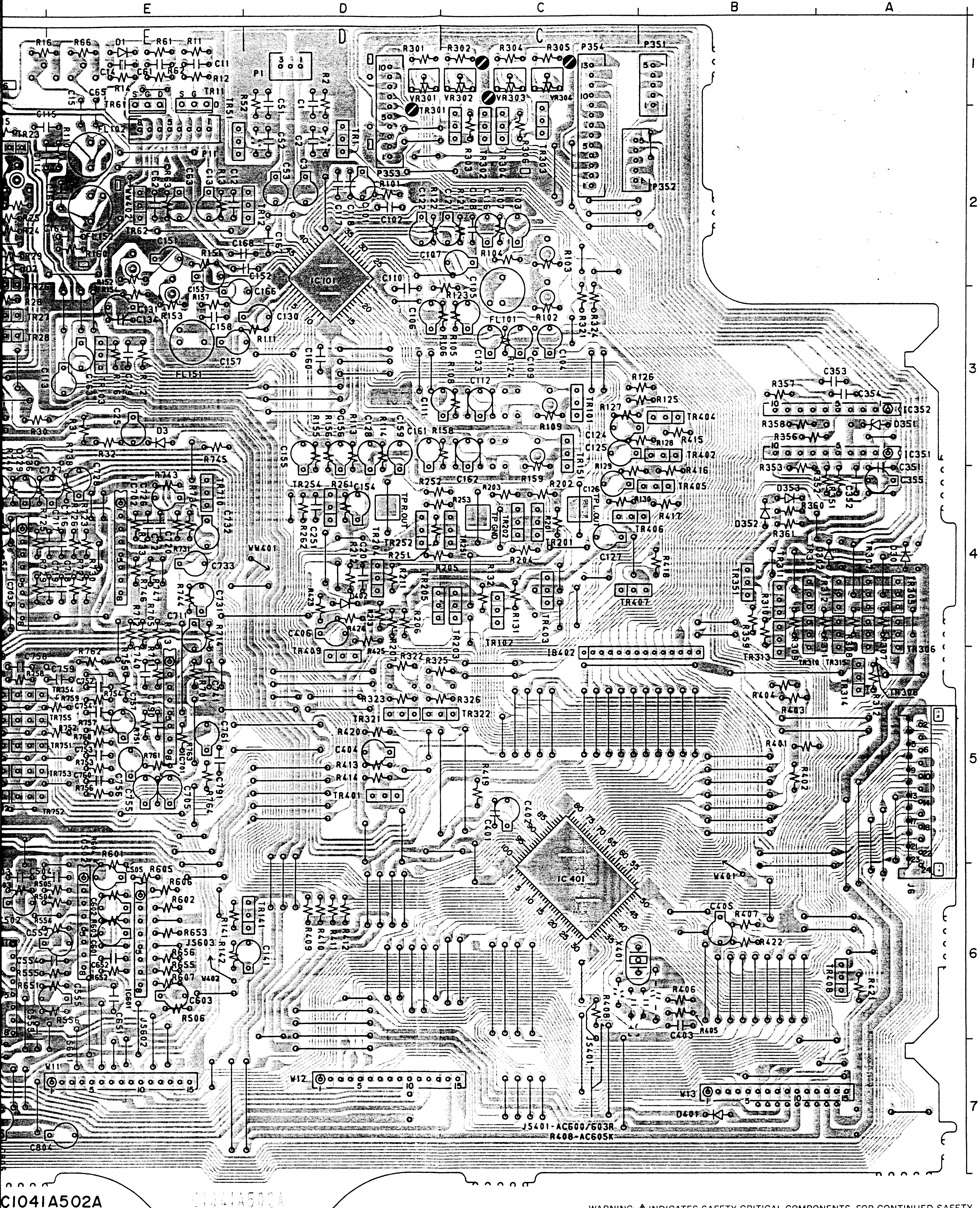
J6	A5,6
P1	D1
P11	E2
P351	B1,2
P352	B,C2
P353	D1,2
P354	C1,2
P851	G1

TRANSISTORs

TR1	D2
TR11	E1,2
TR12	D2
TR21	F2
TR22	F2
TR23	F2
TR24	F3
TR25	F3
TR26	F2,3
TR27	F3
TR28	F3
TR29	F3,4
TR51	D,E2
TR61	E1,2
TR62	E2
TR101	C3
TR102	C4
TR103	E3
TR141	D,E6
TR151	C3,4
TR201	C4
TR202	C4
TR203	C4
TR204	D4
TR205	D4
TR251	D4
TR252	D4
TR254	D4
TR301	C2
TR302	C2
TR303	C2
TR304	C2
TR305	A4
TR306	A4,5
TR307	A4
TR308	A4,5
TR309	B4
TR310	B4,5
TR311	B4
TR312	B4
TR313	B4,5
TR314	A5
TR315	B4,5
TR321	D5
TR322	C5
TR351	B4
TR401	D5
TR402	B3,4
TR403	C4
TR404	B3
TR405	B4
TR406	B,C4
TR407	B,C4
TR408	A,B6
TR409	D4,5
TR701	F5
TR702	F5
TR703	F5
TR704	F5
TR705	F5
TR706	F4
TR707	F4
TR708	F4
TR709	F4
TR710	E4
TR751	E,F5
TR752	E,F5
TR753	E,F5
TR754	E,F5
TR755	E,F5
TR801	F7
TR802	F7
TR803	F7
TR804	G4
TR805	F4
TR806	F,G4
TR807	F,G4


G
F
E
F
TO PREVENT FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSE.
CAUTION
ATTENTION
REMPLACEZ UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE
AC605K ONLY
F2
T1.25A
C851
J851
L851
R851
USR-800 ONLY
TO AC PLUG
AM LOOP ANT.
FM(75Ω)
AUX
L
R
TR804
TR805
TR806
TR807
TR808
IC501
C806
W11
JS802

TUNER/DECK PCB C1041A502A

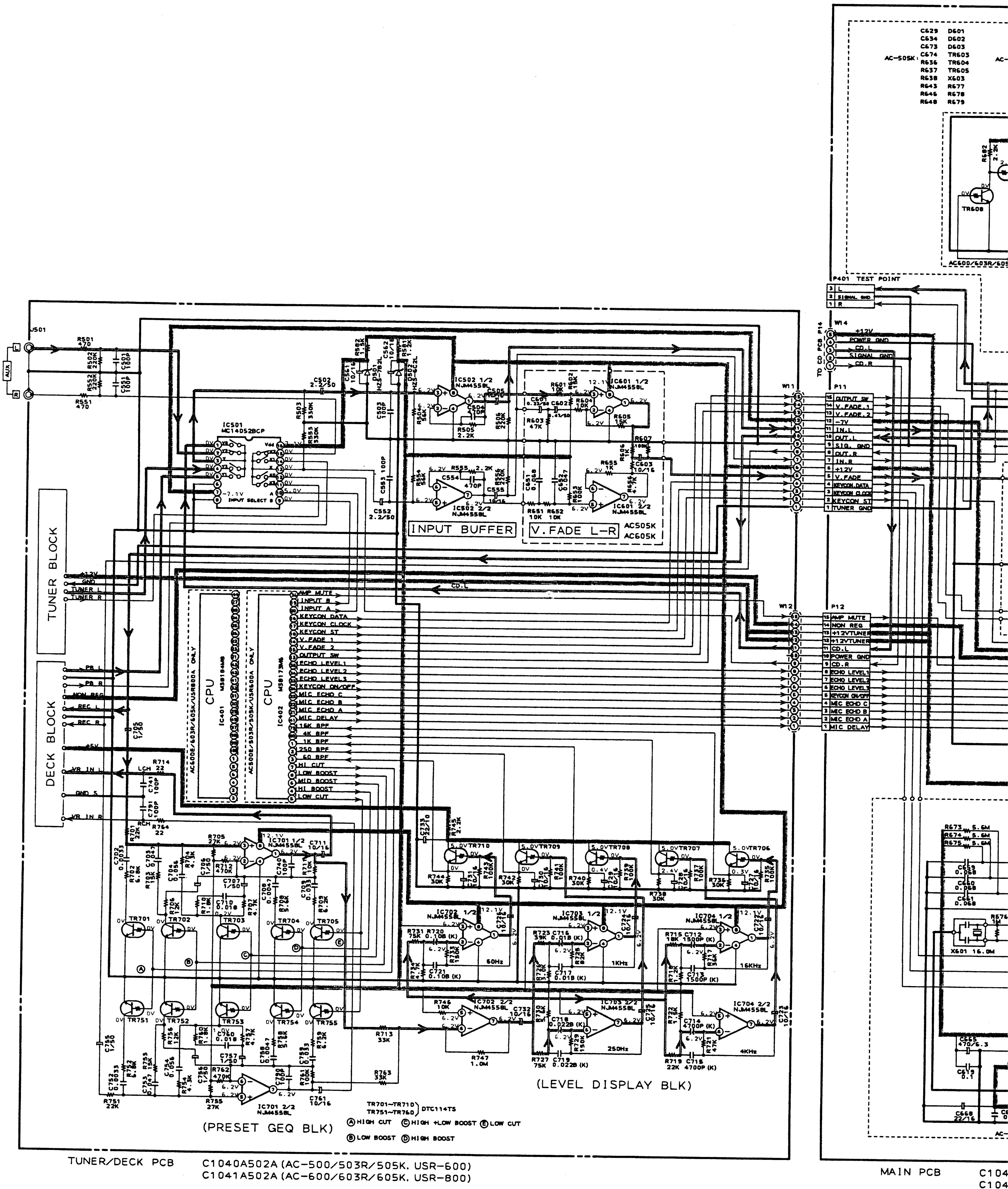


E
D
C
B
A
1
2
3
4
5
6
7
IC101
IC401
IC351
IC352
P351
P352
P353
P354
VR301
VR302
VR303
VR304
FL101
FL151
TP.ROUT
TP.GND
TP.LOUT
IB402
X401
W11
W12
W13
J6
JS401-AC600/603R
R408-AC605K
C1041A502A

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

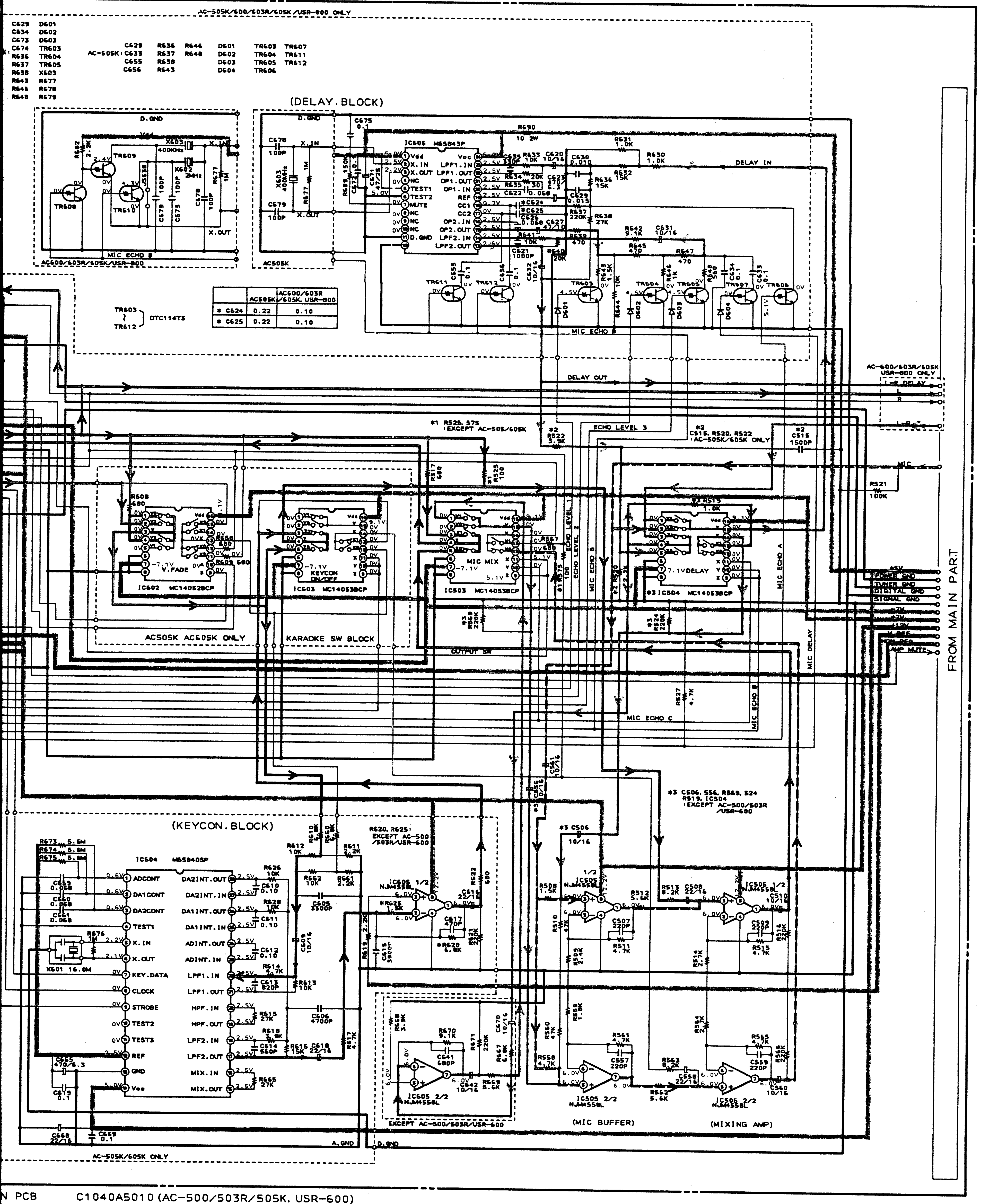

J501
AUX
TUNER BLOCK
+12V
GND
TUNER L
TUNER R
DECK BLOCK
PB L
PB R
NON REG
REC L
REC R
+5V
VR IN L
GND 5
VR IN R
IC501 MC14052BCP
INPUT SELECT
IC502 1/2 NJM4558L
IC502 2/2 NJM4558L
INPUT BUFFER
IC601 1/2 NJM4558L
IC601 2/2 NJM4558L
V.FADE L-R
AC505K
AC605K
CPU
IC401 M38184M8
AC600/603R/605K/USR800 ONLY
IC402 M38173M6
AC500/503R/505K/USR600 ONLY
AMP MUTE
INPUT B
INPUT A
KEYCON DATA
KEYCON CLOCK
KEYCON ST
V.FADE 1
V.FADE 2
OUTPUT SW
ECHO LEVEL1
ECHO LEVEL2
ECHO LEVEL3
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY
16K BPF
4K BPF
1K BPF
250 BPF
60 BPF
HI CUT
LOW BOOST
MID BOOST
HI BOOST
LOW CUT
CD.L
W11
W12
W14
TO CD PCB P14
P401 TEST POINT
L
SIGNAL GND
R
POWER GND
CD.R
P11
OUTPUT SW
V.FADE 1
V.FADE 2
-7V
IN.L
OUT.L
SIG. GND
OUT.R
IN.R
+12V
V.FADE
KEYCON DATA
KEYCON CLOCK
KEYCON ST
TUNER GND
P12
AMP MUTE
NON REG
+12VTUNER
+12VTUNER
CD.L
POWER GND
CD.R
ECHO LEVEL1
ECHO LEVEL2
ECHO LEVEL3
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY
AC-505K
C629 C634 C673 C674 R636 R637 R638 R643 R646 R648
D601 D602 D603 TR603 TR604 TR605 X603 R677 R678 R679
TR608
AC600/603R/605
X601 16.0M
IC701 1/2 NJM4558L
IC701 2/2 NJM4558L
TR701 TR702 TR703 TR704 TR705
TR751 TR752 TR753 TR754 TR755
TR706 TR707 TR708 TR709 TR710
IC702 1/2 NJM4558L
IC702 2/2 NJM4558L
IC703 1/2 NJM4558L
IC703 2/2 NJM4558L
IC704 1/2 NJM4558L
IC704 2/2 NJM4558L
60Hz
1KHz
16KHz
250Hz
4KHz
(LEVEL DISPLAY BLK)
(PRESET GEQ BLK)
TR701~TR710
TR751~TR760
DTC114TS
Ⓐ HIGH CUT
Ⓑ LOW BOOST
Ⓒ HIGH +LOW BOOST
Ⓓ HIGH BOOST
Ⓔ LOW CUT

TUNER/DECK PCB C1040A502A (AC-500/503R/505K, USR-600)
C1041A502A (AC-600/603R/605K, USR-800)

MAIN PCB C104
C104

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.
(TAPE USED: NORMAL TYPE, DOLBY SW: OFF)
(FUNCTION: TAPE-I)

B (POWER SUPPLY) LINE
L-R (SURROUND) SIGNAL LINE
MIC SIGNAL LINE
Lch AUDIO SIGNAL LINE


AC-505K/600/603R/605K/USR-800 ONLY
(DELAY.BLOCK)
IC606 M65843P
MIC ECHO B
AC600/603R/605K/USR-800
AC505K
TR603 ~ TR612 DTC114TS
DELAY OUT
DELAY IN
ECHO LEVEL 3
L-R DELAY
MIC
IC602 MC14052BCP
V.FADE
IC603 MC14053BCP
KEYCON ON/OFF
IC503 MC14053BCP
MIC MIX
IC504 MC14053BCP
DELAY
AC505K AC605K ONLY
KARAOKE SW BLOCK
OUTPUT SW
MIC ECHO A
MIC ECHO C
MIC DELAY
FROM MAIN PART
+5V
POWER GND
TUNER GND
DIGITAL GND
SIGNAL GND
V.REF
AMP MUTE
(KEYCON.BLOCK)
IC604 M65840SP
X601 16.0M
IC505 NJM4558L
IC506 NJM4558L
IC605 NJM4558L
(MIC BUFFER)
(MIXING AMP)
EXCEPT AC-500/503R/USR-600
A.GND
D.GND
AC-505K/605K ONLY

N PCB C1040A5010 (AC-500/503R/505K, USR-600)
C1041A501A (AC-600/603R/605K, USR-800)

INDICATED VOLTAGES WERE MEASURED
WHEN NO SIGNAL WAS BEING INPUT.
(FUNCTION:CD MODE)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF
ALL ELECROLYTIC CAPACITORS IN µF/WV
ALL DIODES ARE 1SS131T

AC-500, 503R, 505K
AC-600, 603R, 605K
TUNER/DECK (2/2) & MAIN (2/2)
(SOUND EFFECT BLK)
SCHEMATIC DIAGRAM

No.8-6 C104003M
A0

PRINCIPAL PARTS LOCATION

ICs

IC1	C4
IC2	B,C2
IC3	C2
IC4	B5
IC5	B6

TRANSISTORs

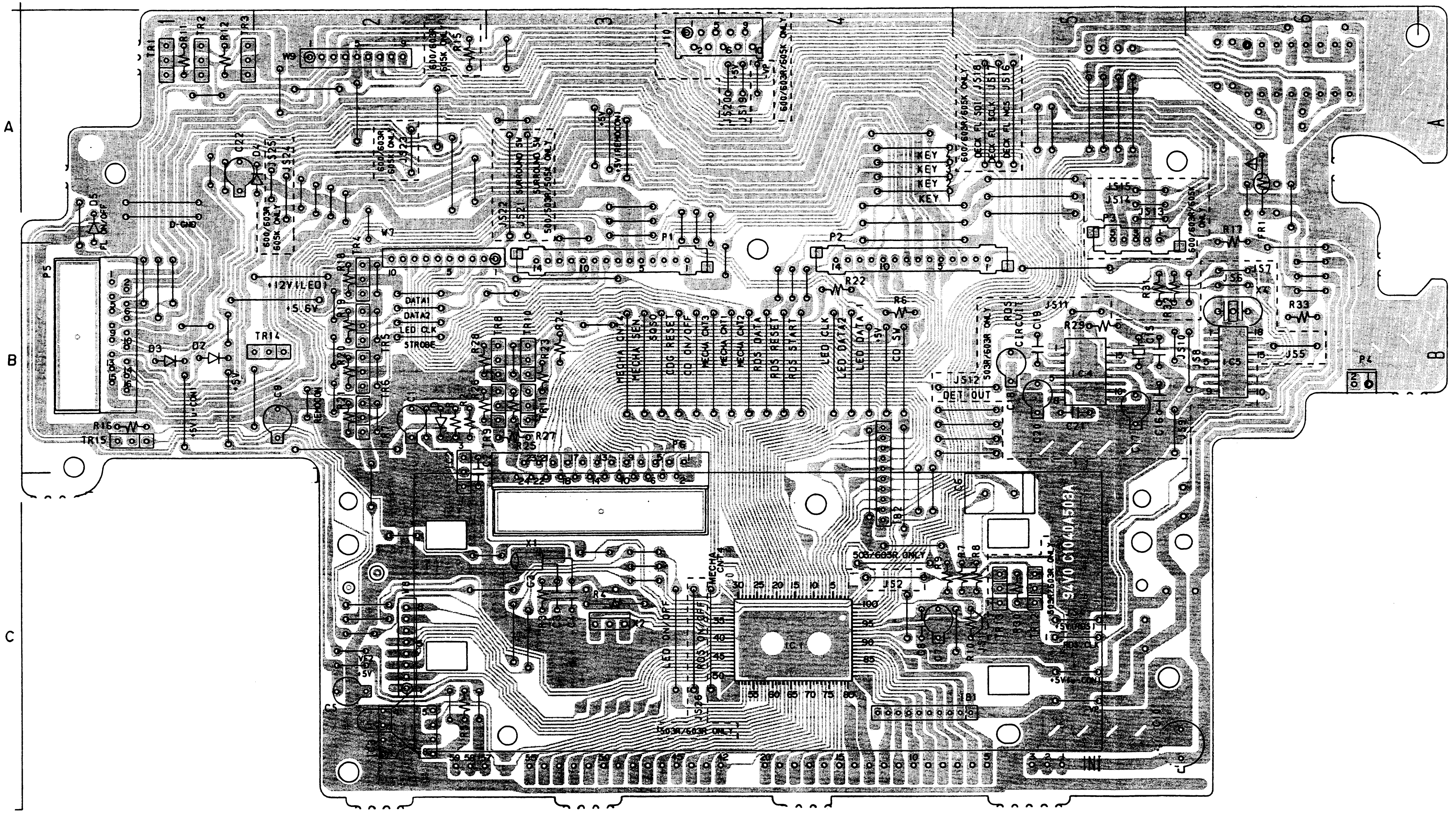
TR1	A1
TR2	A1
TR3	A1
TR4	B2
TR5	B2
TR6	B2
TR7	B2
TR8	B3
TR9	B3
TR10	B3
TR11	B3
TR12	C5
TR13	C5
TR14	B2
TR15	B1

CONNECTORs

J10	A3,4
P1	B3
P2	B4,5
P3	A5
P4	B6
P5	B1
P6	B,C3

WIREs

W7	B2
W8	C2
W9	A2


A
B
C
1
2
3
4
5
6
TR1
TR2
TR3
R12
W9
J10
P1
P2
P3
P4
P5
P6
TR14
TR15
R16
W7
W8
D-GND
+12V(LED)
+5.6V
DATA1
DATA2
LED CLK
STROBE
KEY
KEY
KEY
KEY
MECHA CNT
MECHA SEN
SOSO
CDG RESET
CD ON/OFF
MECHA CNT3
MECHA CNT1
MECHA CNT2
RDS DATA
RDS RESET
RDS START
LED CLK
LED DATA2
LED DATA
+5V
CD 5V
RDS CIRCUIT
DET OUT
IC1
IC4
IC5
X1
R22
R6
R29
R33
R17
FR1
X4
503R/603R ONLY
94V0 C1040A503A

SYSTEM — FLD PCB C1040A503A

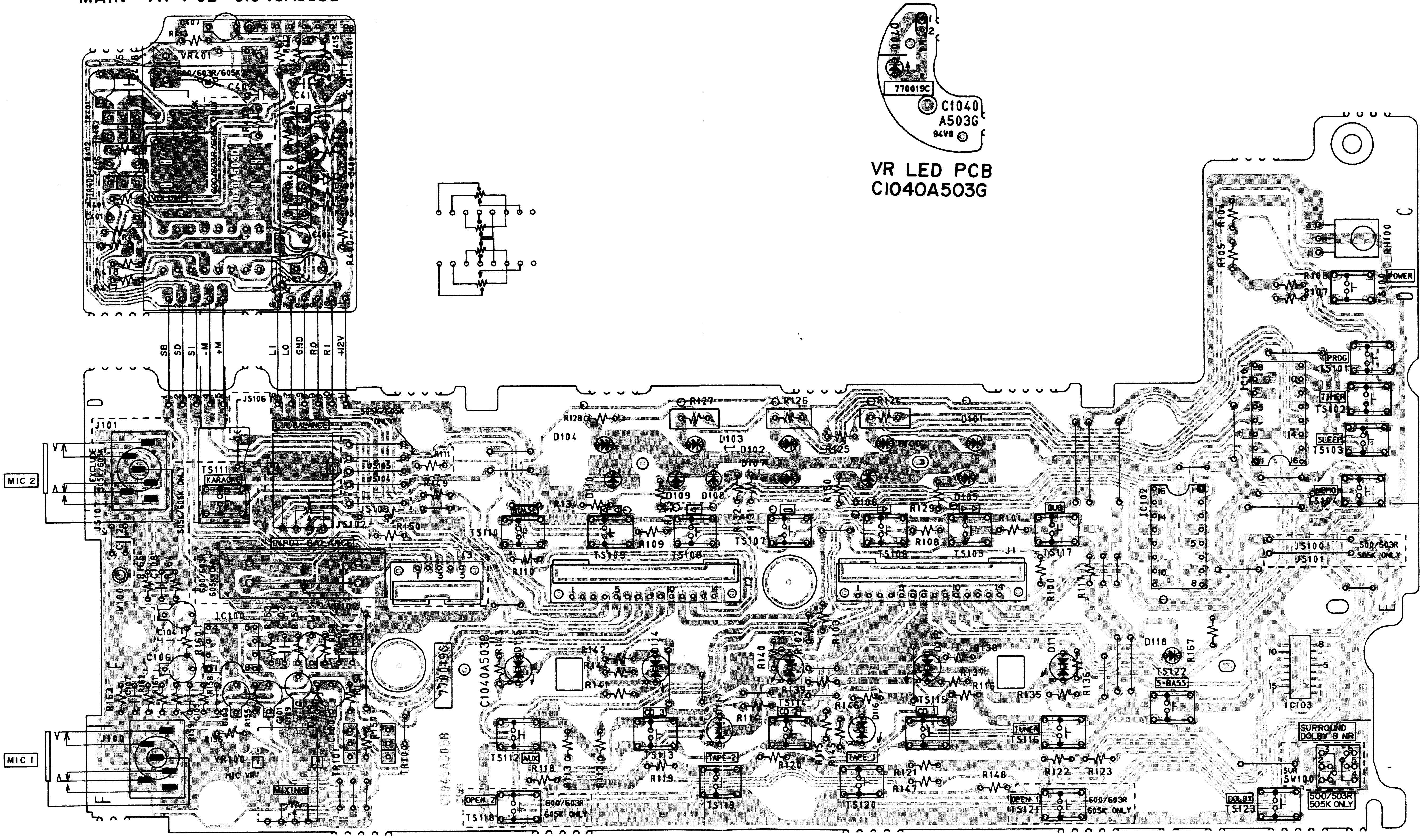
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

MAIN VR PCB C1040A503D

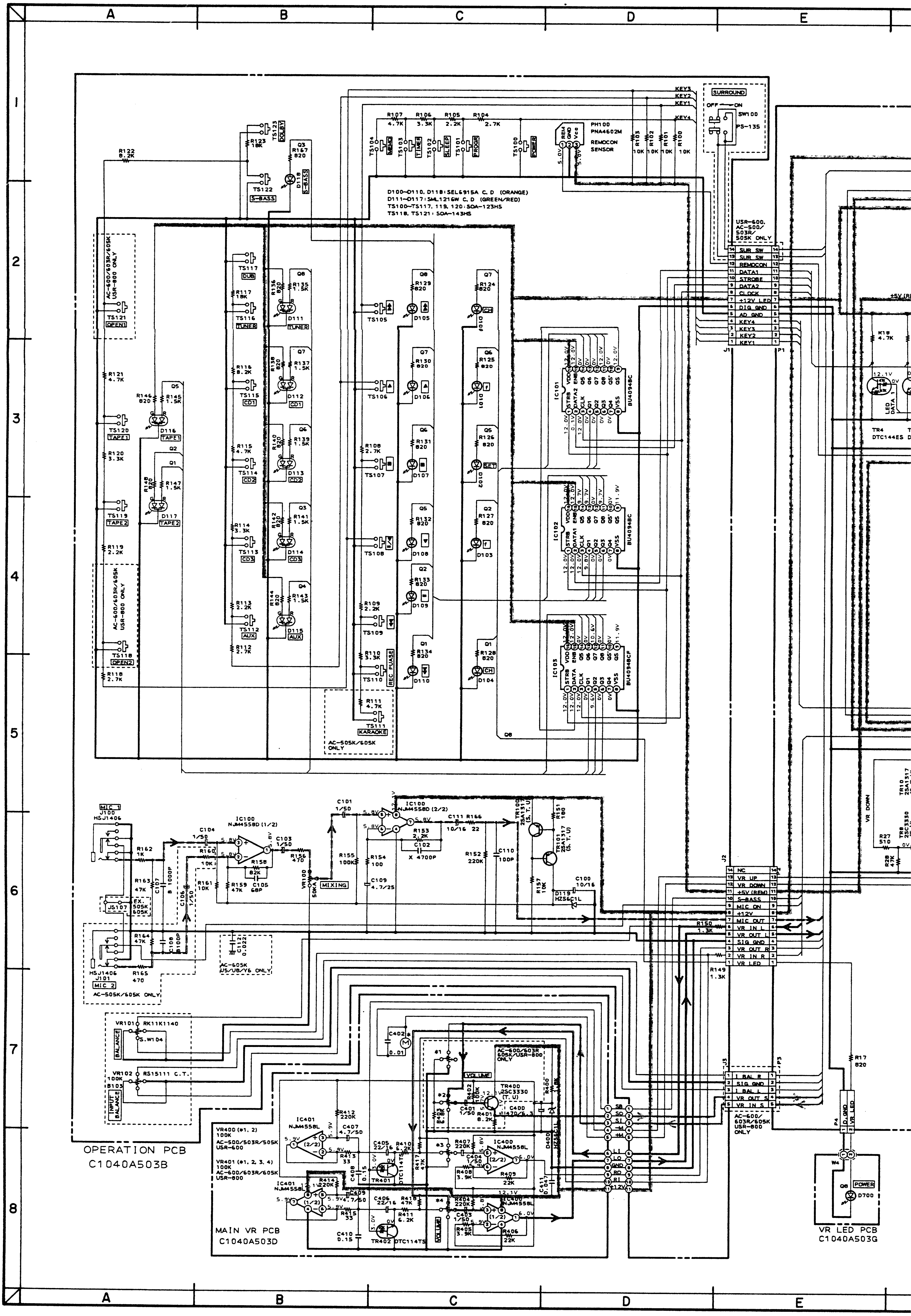
VR LED PCB C1040A503G

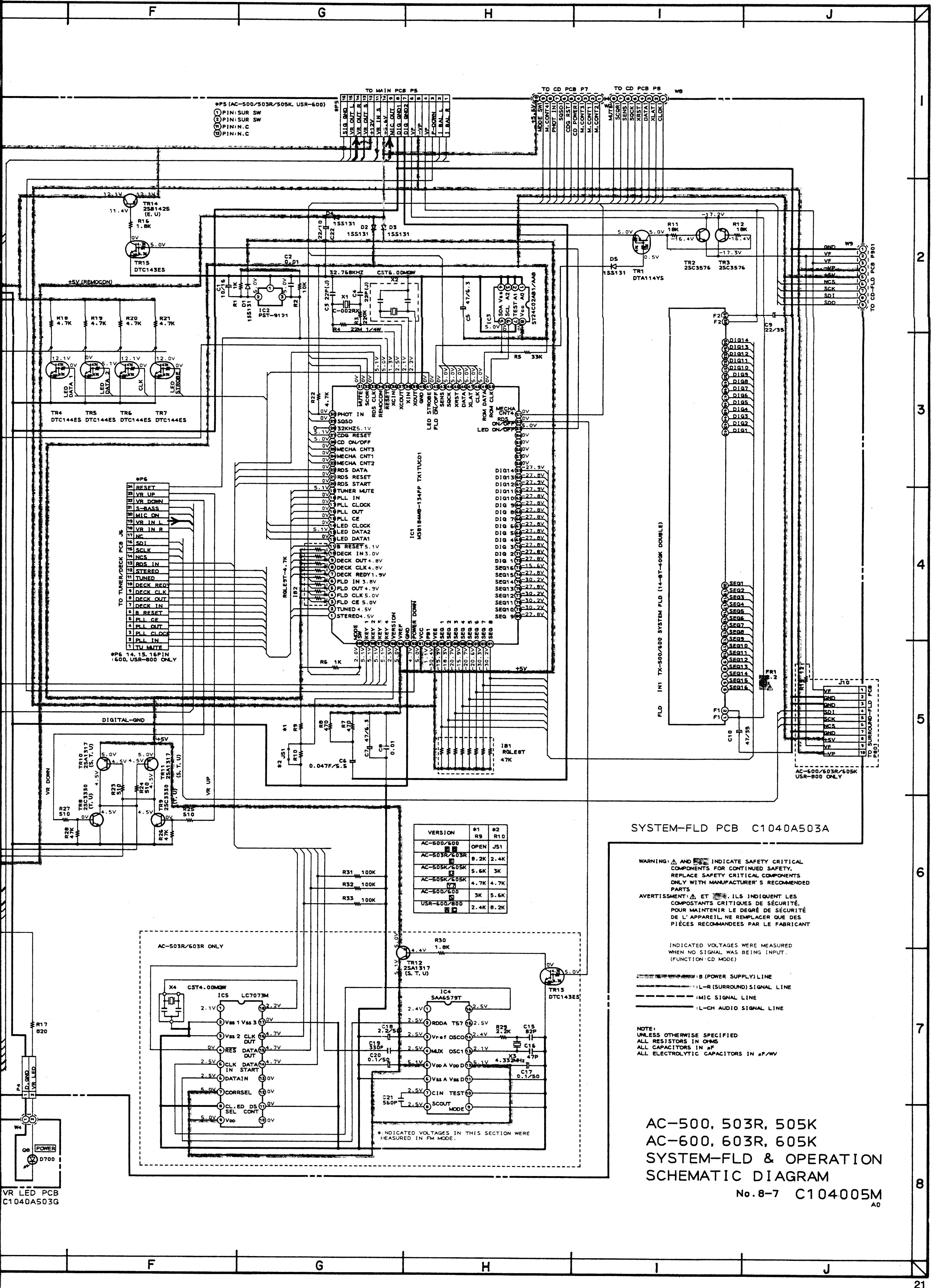


C407
R413
VR401
600/603R/605K
C405
C410
R415
R412
C1040A503D
94V0
C404
C401
R418
R400
SB
SD
SI
-M
+M
L1
LO
GND
R0
R1
+12V
770019C
C1040
A503G
94V0
C
RH100
R104
R105
R106
R107
TS100
POWER
D
PROG
TS101
TIMER
TS102
SLEEP
TS103
MEMO
TS104
IC101
IC102
JS100
JS101
500/503R
505K ONLY
IC103
E
MIC 2
MIC 1
J101
J100
EXCLUDE 505K/605K
JS101
505K/605K ONLY
JS106
505K/605K ONLY
TS111
KARAOKE
L/R BALANCE
INPUT BALANCE
JS105
JS104
JS103
JS102
R111
R149
R150
600/603R 605K ONLY
W100
R165
R164
IC100
VR102
C104
C106
R163
R159
R156
VR100
MIC VR
MIXING
TR101
TR100
R127
R126
R124
R128
D104
D103
D102
D101
D107
D100
R125
D109
D108
D110
R134
R130
D106
D105
R129
R101
ERASE
TS110
TS109
TS108
TS107
TS106
TS105
TS117
DUB
R109
R108
R110
J3
J2
J1
R100
R117
R103
C1040A503B
770019C
R143
D115
D114
R142
R141
R140
R102
D113
D112
D111
R138
R137
R116
R135
R136
D118
R167
TS122
S-BASS
CD 3
CD 2
CD 1
R139
TS114
TS115
R114
R146
D116
D117
TUNER
TS116
TS112
AUX
TS113
R118
R113
R112
R119
TAPE 2
TS119
R120
R115
R145
TAPE 1
TS120
R121
R147
R148
R122
R123
OPEN 2
TS118
OPEN 1
TS121
600/603R 605K ONLY
SURROUND DOLBY B NR
SUR SW100
DOLBY
TS123
500/503R 505K ONLY

OPERATION PCB C1040A503B

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

A
B
C
D
E
1
2
3
4
5
6
7
8
D100~D110, D118: SEL6915A C, D (ORANGE)
D111~D117: SML1216W C, D (GREEN/RED)
TS100~TS117, 119, 120: SOA-123HS
TS118, TS121: SOA-143HS
KEY3
KEY2
KEY1
KEY4
SURROUND
OFF ON
SW100
PS-135
R107 4.7K
R106 3.3K
R105 2.2K
R104 2.7K
TS104 MEMO
TS103 TIMER
TS102 SLEEP
TS101 PROGR
TS100 POWER
PH100
PNA4602M
REMOCON
SENSOR
REM GND Vcc
5.0V
R103 10K
R102 10K
R101 10K
R100 10K
USR-600, AC-500/503R/505K ONLY
SUR SW
REMOCON
DATA1
STROBE
DATA2
CLOCK
+12V LED
DIG GND
AD GND
KEY4
KEY3
KEY2
KEY1
J1
P1
R122 8.2K
R123 18K
TS123 DOLBY
Q3 R167 820
D118 S-BASS
TS122 S-BASS
AC-600/603R/605K USR-800 ONLY
TS121 OPEN1
TS117 DUB
TS116 TUNER
D111 TUNER
TS115 CD1
D112 CD1
TS114 CD2
D113 CD2
TS113 CD3
D114 CD3
TS112 AUX
D115 AUX
TS120 TAPE1
D116 TAPE1
TS119 TAPE2
D117 TAPE2
TS118 OPEN2
TS105
TS106
TS107
TS108
TS109
TS110 REC PUASE
TS111 KARAOKE
AC-505K/605K ONLY
D105
D106
D107
D108
D109
D110
D100 CH
D101
D102 SET
D103
D104 CH
IC101 BU4094BC
IC102 BU4094BC
IC103 BU4094BCF
STRB DATA1 CLK Q1 Q2 Q3 Q4 VSS
VDD ENB Q5 Q6 Q7 Q8 QS QS'
MIC 1 J100 HSJ1406
MIC 2 J101 HSJ1406
IC100 NJM4558D (1/2)
IC100 NJM4558D (2/2)
VR100 50KA MIXING
JS107 EX. 505K 605K
AC-605K US/UB/Y6 ONLY
AC-505K/605K ONLY
TR100 2SA1317 (S, T, U)
TR101 2SC3330 (S, T, U)
D119 HZS6C1L
J2
NC
VR UP
VR DOWN
+5V (REM)
S-BASS
MIC ON
+12V
MIC OUT
VR IN L
VR OUT L
SIG GND
VR OUT R
VR IN R
VR LED
R150 1.3K
R149 1.3K
VR101 RK11K1140 BALANCE S.W104
VR102 RS15111 C.T. 100K B103 INPUT BALANCE
OPERATION PCB
C1040A503B
VR400 (*1, 2) 100K AC-500/503R/505K USR-600
VR401 (*1, 2, 3, 4) 100K AC-600/603R/605K USR-800
IC401 NJM4558L
IC400 NJM4558L
TR400 2SC3330 (T, U)
TR401 DTC114TS
TR402 DTC114TS
AC-600/603R 605K/USR-800 ONLY
VOLUME
M
SB
SO
S1
M
+M
L
LO
GND
RO
RI
+12V
MAIN VR PCB
C1040A503D
J3
P3
BAL R
SIG GND
BAL L
VR OUT S
VR IN S
AC-600/603R/605K USR-800 ONLY
P4
D.GND
VR LED
W4
Q8 POWER
D700
VR LED PCB
C1040A503G
R17 820
TR4 DTC144ES
R18 4.7K
VR DOWN
TR10 2SA1317
TR8 2SC3330
R27 510
R28 47K
+5V


1
2
3
4
5
6
7
8
*P5 (AC-500/503R/505K, USR-600)
①PIN: SUR SW
②PIN: SUR SW
⑫PIN: N.C
⑬PIN: N.C
TO MAIN PCB P5
SIG GND
VR OUT L
VR OUT R
VR OUT S
VR IN S
MIC OUT
DIG GND1
DIG GND2
VF
-VP
P-DOWN
L BAL L
L BAL R
TO CD PCB P7
TO CD PCB P8
W8
MODE SW
M.CONT4
PHOT IN
SQSO
CD RESET
CD POWER
M.CONT1
M.CONT3
M.CONT2
MUTE
SCOR
SENS
SQCK
XRST
DATA
XLAT
CLOCK
TR14 2SB1425 (E, U)
R16 1.8K
TR15 DTC143ES
+5V (REMOCON)
R18 4.7K
R19 4.7K
R20 4.7K
R21 4.7K
LED DATA 1
LED DATA 2
CLK
LED STROBE
TR4 DTC144ES
TR5 DTC144ES
TR6 DTC144ES
TR7 DTC144ES
D4 1SS131
D2 1SS131
D3 1SS131
C2 0.01
C1 10/16
IC2 PST-9121
32.768KHZ
CST6.00MGW
X1
X2
C3 22P(J)
C4 22P(J)
R4 22M 1/4W
C5 47/6.3
IC3 ST24C02AB1/AAB
R5 33K
R11 18K
R12 18K
TR1 DTA114YS
D5 1SS131
TR2 2SC3576
TR3 2SC3576
W9
GND
VF
-VP
+5V
NCS
SCK
SDI
SDO
TO CD-FLD PCB P901
IC1 M38184M8-134FP TX1TUCD1
R22 4.7K
*P6
RESET
VR UP
VR DOWN
S-BASS
MIC ON
VR IN L
VR IN R
NC
SDI
SCLK
NCS
RDS IN
STEREO
TUNED
DECK REDY
DECK CLK
DECK OUT
DECK IN
B RESET
PLL CE
PLL OUT
PLL CLOCK
PLL IN
TU MUTE
TO TUNER/DECK PCB J6
*P6 14, 15, 16PIN :600, USR-800 ONLY
RGLE9T-4.7K
IB2
R6 1K
+5V
IB1 RGLE8T 47K
FLD
IN1 TX-500/600 SYSTEM FLD (14-BT-40GK DOUBLE)
DIG14
DIG13
DIG12
DIG11
DIG10
DIG9
DIG8
DIG7
DIG6
DIG5
DIG4
DIG3
DIG2
DIG1
SEG1
SEG16
C9 22/35
C10 47/35
FR1
J10
TO SURROUND-FLD PCB P801
AC-600/603R/605K USR-800 ONLY
DIGITAL-GND
R9
R10
JS1
R8 470
R7 470
C7 47/6.3
C8 0.01
C6 0.047F/5.5
TR10 2SA1317 (S, T, U)
TR11 2SA1317 (S, T, U)
TR8 2SC3330 (S, T, U)
TR9 2SC3330 (S, T, U)
R23 510
R24 510
R25 510
R27 510
R26 47K
R28 47K
VR DOWN
VR UP
R31 100K
R32 100K
R33 100K
AC-503R/603R ONLY
X4 CST4.00MGW
IC5 LC7073M
IC4 SAA6579T
R30 1.8K
TR12 2SA1317 (S, T, U)
TR13 DTC143ES
R29 2.2K
C15 82P
C16 47P
X3 4.332MHz
C17 0.1/50
C18 2.2/50
C19 330P
C20 0.1/50
C21 560P
*:INDICATED VOLTAGES IN THIS SECTION WERE MEASURED IN FM MODE.
R17 820
P4
D.GND
VR LED
W4
Q8
POWER
D700
VR LED PCB C1040A503G

VERSION	*1 R9	*2 R10
AC-500/600 [illegible]	OPEN	JS1
AC-503R/603R E	8.2K	2.4K
AC-505K/605K U	5.6K	3K
AC-505K/605K Y7	4.7K	4.7K
AC-500/600 S	3K	5.6K
USR-600/800 A C	2.4K	8.2K

SYSTEM-FLD PCB C1040A503A

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

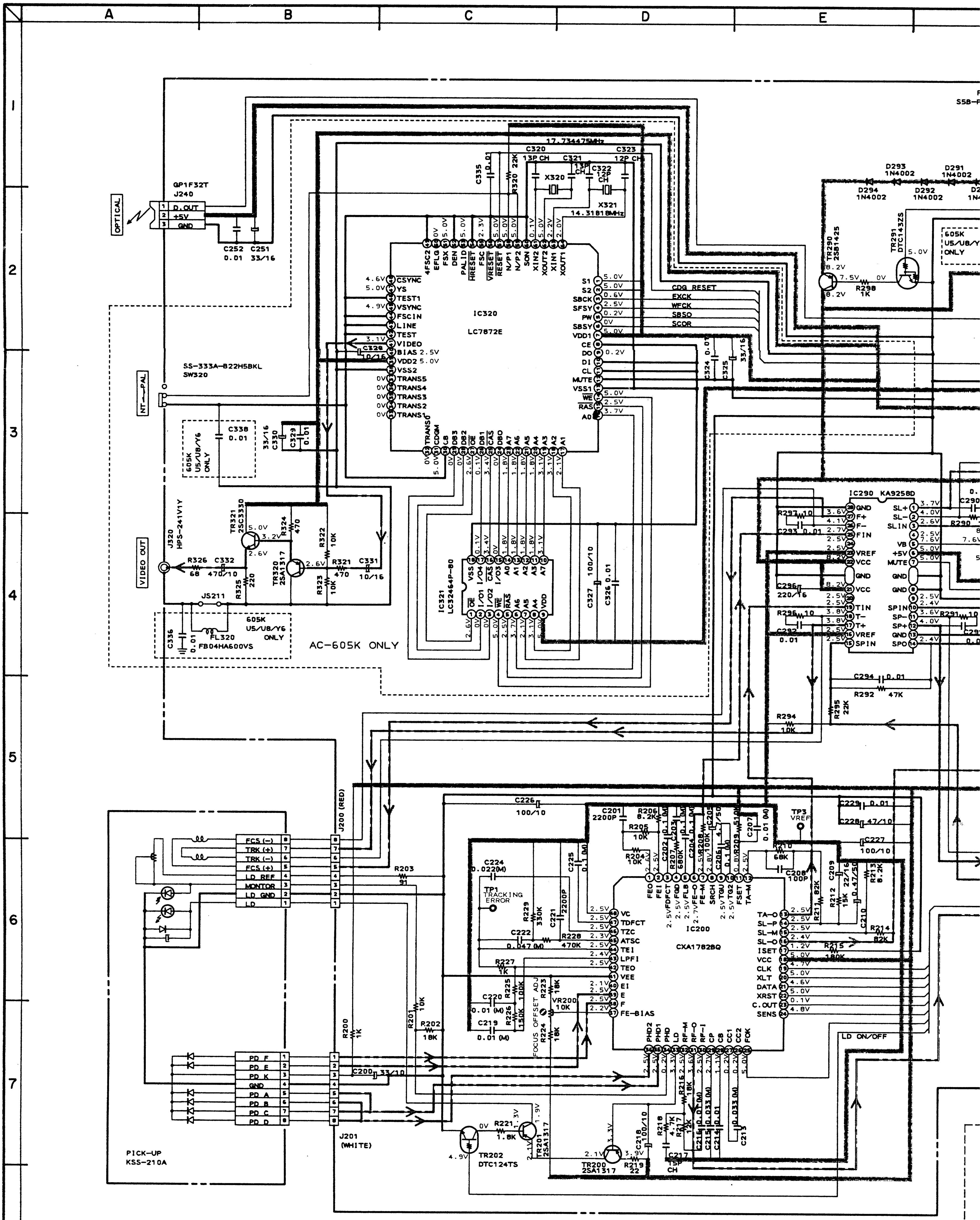
INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT. (FUNCTION: CD MODE)

▬▬▬ : B (POWER SUPPLY) LINE
━━━ : L-R (SURROUND) SIGNAL LINE
— — — : MIC SIGNAL LINE
──── : L-CH AUDIO SIGNAL LINE

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF
ALL ELECTROLYTIC CAPACITORS IN μF/WV

AC-500, 503R, 505K
AC-600, 603R, 605K
SYSTEM-FLD & OPERATION SCHEMATIC DIAGRAM

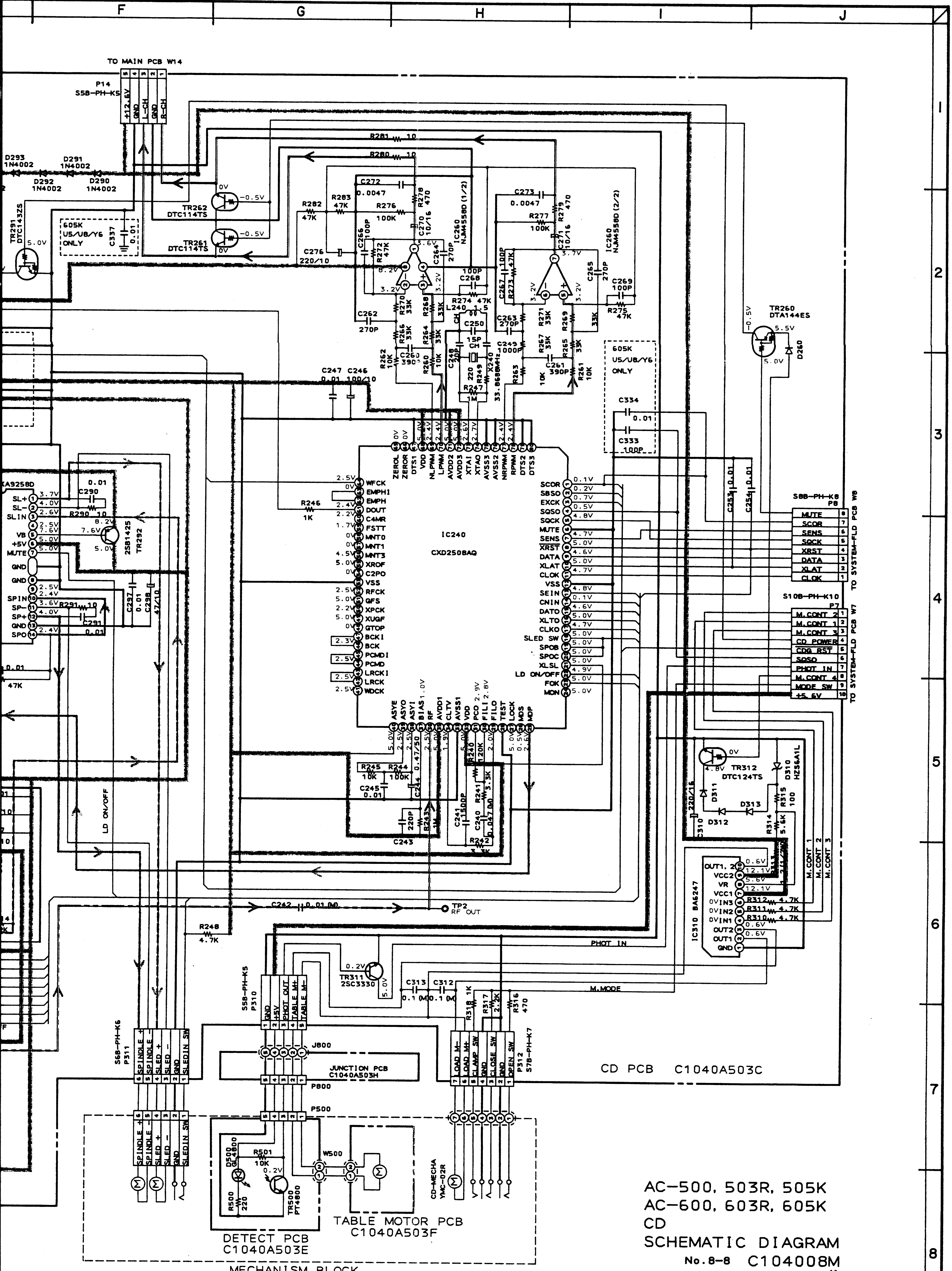
No.8-7 C104005M
A0


A
B
C
D
E
1
2
3
4
5
6
7
8
GP1F32T
J240
OPTICAL
D.OUT
+5V
GND
C252 0.01
C251 33/16
SS-333A-822H5BKL
SW320
NT—PAL
C338 0.01
605K U5/U8/Y6 ONLY
C330 33/16
C329 0.01
J320 HPS-241V1Y
VIDEO OUT
R326 68
C332 470/10
R325 220
TR321 2SC3330
R324 470
R322 10K
TR320 2SA1317
R321 470
C331 10/16
R323 10K
JS211
C336 0.01
FL320 FB04HA600VS
605K U5/U8/Y6 ONLY
AC-605K ONLY
17.734475MHz
C320 13P CH
C321 13P CH
C322 12P CH
C323 12P CH
X320
X321 14.31818MHz
C335 0.01
R320 22K
IC320
LC7872E
C328 10/16
CDG RESET
EXCK
WFCK
SBSO
SCOR
C324 0.01
C325 33/16
IC321
LC3246AP-80
C327 100/10
C326 0.01
D293 1N4002
D291 1N4002
D294 1N4002
D292 1N4002
TR290 2SB1425
TR291 DTC143ZS
R298 1K
605K U5/U8/Y6 ONLY
IC290 KA9258D
R297 10
C293 0.01
C296 220/16
R296 10
C292 0.01
C294 0.01
R292 47K
R295 22K
R294 10K
R290
R291 10
J200 (RED)
FCS (−)
TRK (+)
TRK (−)
FCS (+)
LD REF
MONTOR
LD GND
LD
R203 91
PD F
PD E
PD K
GND
PD A
PD B
PD C
PD D
PICK-UP
KSS-210A
J201 (WHITE)
C200 33/10
R200 1K
R201 10K
R202 18K
TR202 DTC124TS
R221 1.8K
TR201 2SA1317
TR200 2SA1317
R219 22
C218 100/10
C217 15P CH
C226 100/10
C201 2200P
R206 8.2K
R205 10K
R204 10K
C224 0.022(M)
TP1 TRACKING ERROR
R229 330K
C221 2200P
C225 0.1(M)
C222 0.047(M)
R228 470K
R227 1K
C220 0.01(M)
R225 150K
R226 100K
VR200 10K
FOCUS OFFSET ADJ
R223 18K
R224 18K
C219 0.01(M)
IC200
CXA1782BQ
TP3 VREF
C207 0.01(M)
R210 68K
C208 100P
C229 0.01
C228 47/10
C227 100/10
R211 82K
R212 15K
C209 22/16
C210 0.47/50
R213 8.2K
R214 82K
R215 180K
LD ON/OFF
R216 18K
R217 12K
R218 4.7K
C215 0.033(M)
C216 0.033(M)
C214 0.01
C213 0.033(M)
S5B-P

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T-77
ALL INDUCTORS IN μH
INDICATED VOLTAGES WERE
MEASURED DURING PLAY MODE.

- :B (POWER SUPPLY) LINE
- :SPINDLE MOTOR LINE
- :SLED MOTOR LINE
- :FOCUS SERVO LINE
- :TRACKING SERVO LINE
- :SIGNAL LINE
- :VIDEO SIGNAL LINE
- :RF SIGNAL LINE

A B C D E


F
G
H
I
J
1
2
3
4
5
6
7
8
TO MAIN PCB W14
P14
S5B-PH-K5
+12.6V
GND
L-CH
GND
R-CH
D293 1N4002
D291 1N4002
D292 1N4002
D290 1N4002
TR291 DTC143ZS
605K U5/U8/Y6 ONLY
C337 0.01
TR262 DTC114TS
TR261 DTC114TS
R281 10
R280 10
R282 47K
R283 47K
R276 100K
C272 0.0047
R278 470
C270 10/16
IC260 NJM4558D (1/2)
C266 100P
R272 47K
C264 270P
C276 220/10
C262 270P
R270 33K
R268 33K
R266 33K
R264 33K
R262 10K
R260 10K
C260 390P
C268 100P
R274 47K
L240
C250 15P
C248 22P
C249 1000P
X240 33.8688MHz
R249 220
R247 1M
C273 0.0047
R277 100K
R279 470
C271 10/16
IC260 NJM4558D (2/2)
C257 100P
R273 47K
C255 270P
C269 100P
R275 47K
C263 270P
R271 33K
R269 33K
R267 33K
R265 33K
R263 10K
R261 10K
C261 390P
C247 0.01
C246 100/10
C334 0.01
C333 100P
TR260 DTA144ES
D260
IC240
CXD2508AQ
WFCK
EMPHI
EMPH
DOUT
C4MR
FSTT
MNT0
MNT1
MNT3
XROF
C2PO
VSS
RFCK
GFS
XPCK
XUGF
GTOP
BCKI
BCK
PCMDI
PCMD
LRCKI
LRCK
WDCK
ZEROL
ZEROR
DTS1
VDD
NLPWM
LPWM
AVDD2
AVDD3
XTAI
XTAO
AVSS3
AVSS2
NRPWM
RPWM
DTS2
DTS3
SCOR
SBSO
EXCK
SQSO
SQCK
MUTE
SENS
XRST
DATA
XLAT
CLOK
VSS
SEIN
CNIN
DATO
XLTO
CLKO
SLED SW
SPOB
SPOC
XLSL
LD ON/OFF
FOK
MON
ASYE
ASYO
ASYI
BIAS
RF
AVDD1
CLTV
AVSS1
VDD
PCO
FILI
FILO
TEST
LOCK
MDS
MDP
R246 1K
C253 0.01
C254 0.01
S8B-PH-K8
P8
MUTE
SCOR
SENS
SQCK
XRST
DATA
XLAT
CLOK
TO SYSTEM-FLD PCB W8
S10B-PH-K10
P7
M.CONT 2
M.CONT 1
M.CONT 3
CD POWER
CDG RST
SQSO
PHOT IN
M.CONT 4
MODE SW
+5.6V
TO SYSTEM-FLD PCB W7
KA9258D
SL+
SL-
SLIN
VB
+5V
MUTE
GND
SPIN
SP-
SP+
SPO
C290 0.01
R290 10
TR292 2SB1425
C297 0.01
C298 47/10
R291 10
C291 0.01
47K
LD ON/OFF
R245 10K
R244 100K
C244 0.47/50
C245 0.01
C243 220P
R243 1K
C241 1500P
R240 120K
R241 3.3K
C240 0.047 (M)
R242 1K
C242 0.01 (M)
TP2 RF OUT
R248 4.7K
TR312 DTC124TS
D310 HZS6A1L
D311
D312
D313
R315 100
R314 5.6K
C310 220/16
IC310 BA6247
OUT1, 2
VCC2
VR
VCC1
IN3
IN2
IN1
OUT2
OUT1
GND
R312 4.7K
R311 4.7K
R310 4.7K
M.CONT 1
M.CONT 2
M.CONT 3
PHOT IN
M.MODE
TR311 2SC3330
C313 0.1 (M)
C312 0.1 (M)
R318 1K
R317 2.2K
R316 470
S5B-PH-K5
P310
GND
+5V
PHOT OUT
TABLE M+
TABLE M-
S6B-PH-K6
P311
SPINDLE +
SPINDLE -
SLED +
SLED -
GND
SLEDIN SW
J800
JUNCTION PCB C1040A503H
P800
P500
P312
S7B-PH-K7
LOAD M-
LOAD M+
CLAMP SW
GND
CLOSE SW
GND
OPEN SW
CD PCB C1040A503C
D500 GL4800
R501 10K
R500 220
TR500 PT4800
W500
CD-MECHA YMC-02R
DETECT PCB C1040A503E
TABLE MOTOR PCB C1040A503F
MECHANISM BLOCK

AC-500, 503R, 505K
AC-600, 603R, 605K
CD
SCHEMATIC DIAGRAM
No.8-8 C104008M
A1

PRINCIPAL PARTS LOCATION

ICs

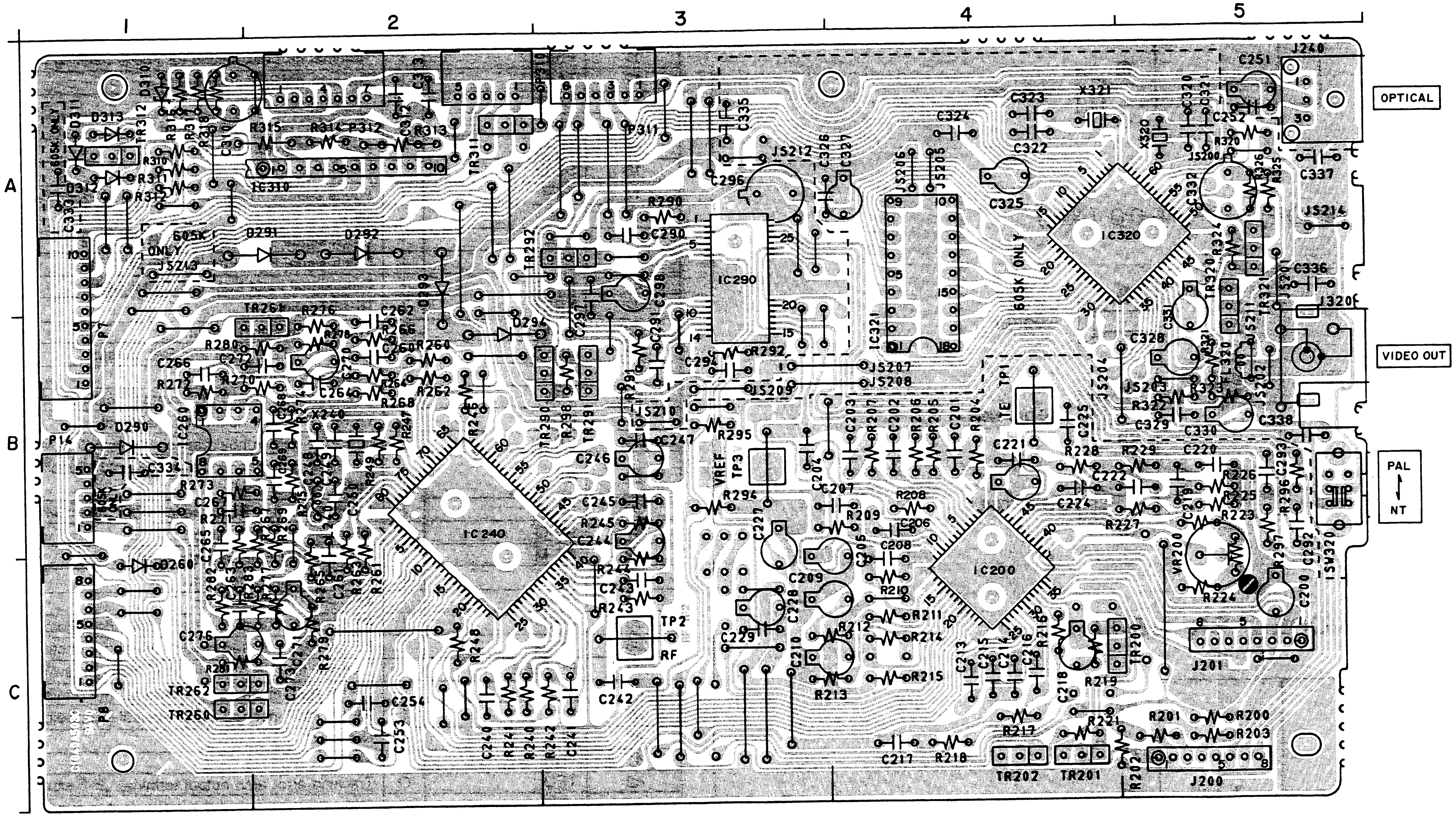
IC200	C4
IC240	B,C2
IC260	B1,2
IC290	B,C3
IC310	A2
IC320	A4,5
IC321	A,B4

TRANSISTORs

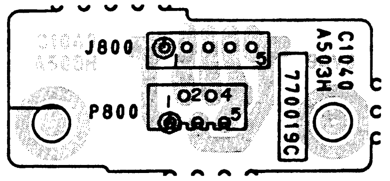
TR200	C4,5
TR201	C4
TR202	C4
TR260	C1,2
TR261	B1,2
TR262	C1,2
TR290	B1,2
TR291	B3
TR292	A3
TR311	A2,3
TR312	A1
TR320	A,B5
TR321	A5

CONNECTORs

P7	A,B1
P8	C1
P14	B1
P310	A2
P311	A3
P312	A2
J200	C5
J201	C5


1
2
3
4
5
A
B
C
OPTICAL
VIDEO OUT
PAL
NT
IC200
IC240
IC260
IC290
IC310
IC320
IC321
J200
J201
J240
P7
P8
P14

CD PCB C1040A503C


J800
P800
C1040A503H
770019C

JUNCTION PCB
C1040A503H

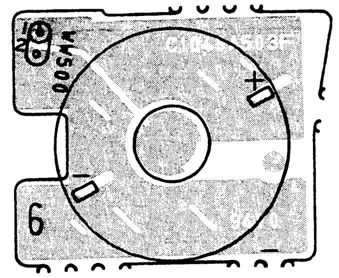
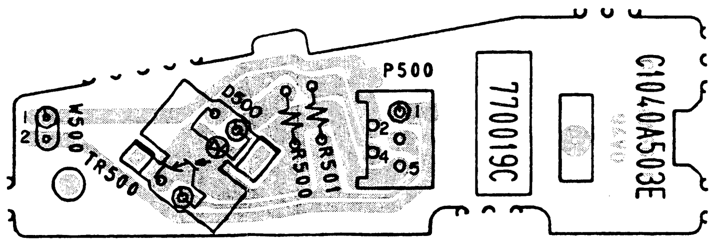


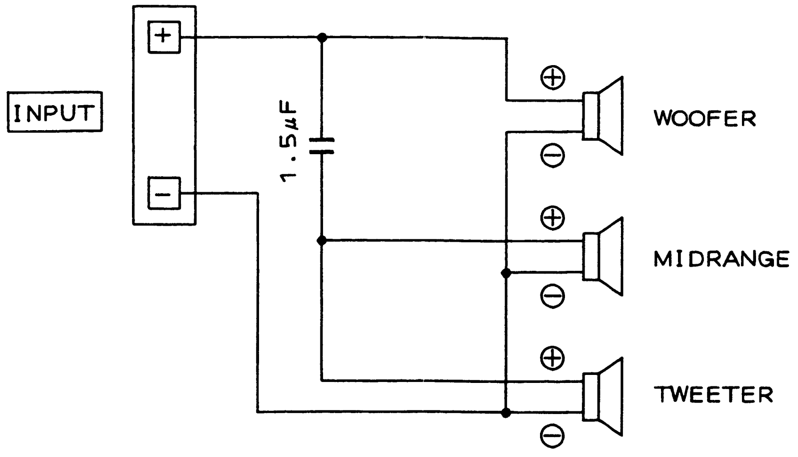
TABLE MOTOR PCB
C1040A503F


P500
D500
R500
R501
TR500
W500
770019C
C1040A503E

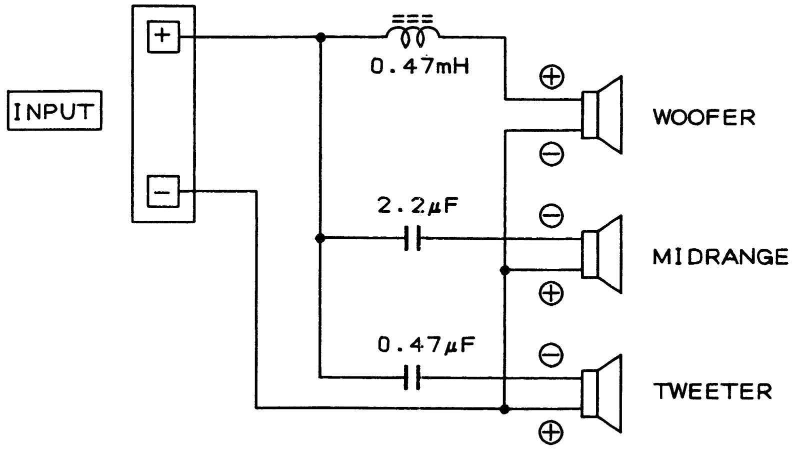
DETECT PCB C1040A503E

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

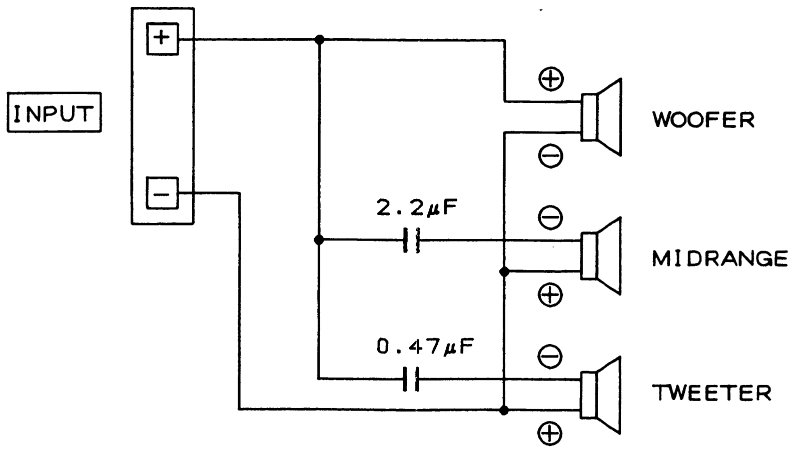
MODEL SR-500 (X4)



MODEL SR-600 (X4)



MODEL SR-600 (Y1)



SR-500, 600
SCHEMATIC DIAGRAM

CXA1782BQ (RF I-V AMP/RF AMP)

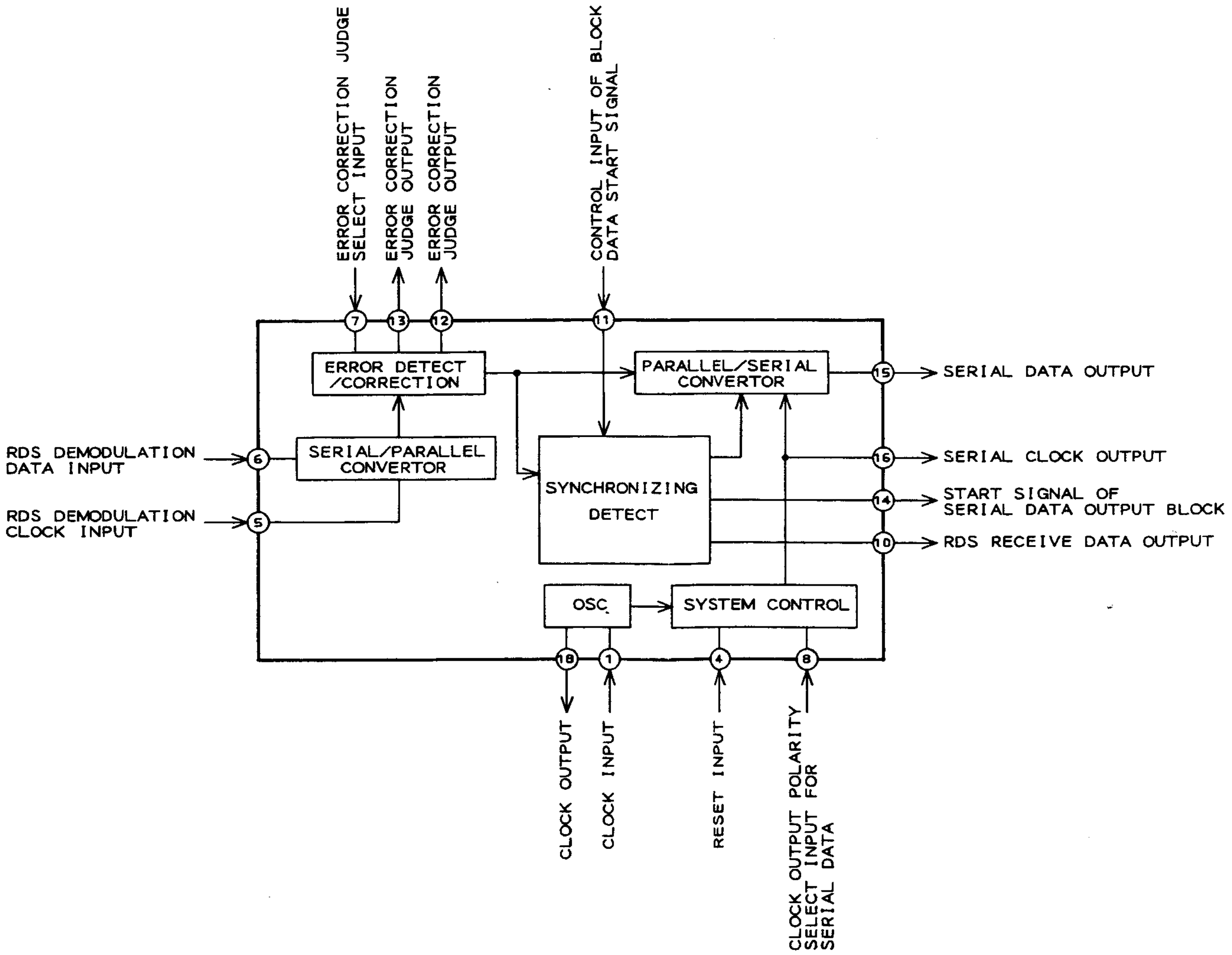
PIN No.	PORT NAME	I/O	FUNCTION
1	FEO	O	Focus drive output.
2	FEI	I	Focus error signal input.
3	FDFCT	I	Time constant capacitor connecting terminal at time of defect.
4	FGD	I	Connect condenser for Focus servo gain control.
5	FLB	I	Connect condenser for Focus servo correction.
6	FE-O	O	Focus drive output.
7	FE-M	I	FOCUS AMP Inverting input.
8	SRCH	I	Connect condenser for Focus search wave.
9	TGU	I	Connect condenser for Trackink gain select.
10	TG2	I	Connect condenser for Tracking gain select.
11	FSET	I	Terminal for peak setting for Focus tracking phase compensation.
12	TA-M	I	Tracking AMP Inverting input.
13	TA-O	O	Tracking drive output.
14	SL-P	I	Sled AMP non-inverting input.
15	SL-M	I	Sled AMP Inverting input.
16	SL-O	O	Sled drive output.
17	ISET	I	Focus search, Track jump and slide kick current input.
18	Vcc	–	+5 V
19	CLK	I	Clock signal input from the CD MI-COM.
20	XLT	I	Lutch signal input from the CD MI-COM.
21	DATA	I	Data signal input from the CD MI-COM.
22	$\overline{\text{XRST}}$	I	RESET input.
23	C.OUT	O	Track count signal output.
24	SENS	O	FZC,DFCT,TZC,GAIN and BAL output.
25	FOK	O	Focus OK signal output.
26	CC2	I	Input terminal of DEFECT bottom hold output which is supplied through capcitor.
27	CC1	O	DEFECT bottom hold output terminal.
28	CB	I	DEFECT bottom hold capacitor connecting terminal.
29	CP	I	Terminal for connection of MIRR hold capacitor. (Non inverted input terminal of MIRR comparator.)
30	RF-I	I	Input terminal of RF summing AMP output which is supplied through a capacitor.
31	RF-O	O	RF summing AMP output.
32	RF-M	I	RF summing AMP inverted input terminal.
33	LD	O	APC AMP output terminal.
34	PHD	I	APC AMP input terminal.
35	PHD1	I	RF I-V AMP inverted input terminal (for photo diode A+C of pick up)
36	PHD2	I	RF I-V AMP inverted input terminal (for photo diode B+D of pick up)
37	FE-BIAS	I	Terminal for bias adjustment of focus error amp.
38	F	I	RF I-V AMP inverted input terminal (for photo diode F of pick up)
39	E	I	RF I-V AMP inverted input terminal (for photo diode E of pick up)
40	EI	–	Not used
41	VEE	–	GND
42	TEO	O	Tracking error amp output terminal. (E-F signal output.)
43	LPFI	I	BAL adjustment of comperator input terminal.
44	TEI	I	Tracking error input terminal.
45	ATSC	I	Window comperator input input terminal for ATSC detection.
46	TZC	I	Input terminal of tracking zero cross comparator.
47	TDFCT	I	Time constant capacitor connecting terminal at time of defect.
48	VC	O	(VCC+VEE)/2 DC voltage output terminal.

CXD2508AQ (CD DIGITAL SIGNAL PROCESS & SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	SCOR	O	H output when either sub code S0 or S1 is detected.
2	SBSO	O	Serial output of Sub P to W.
3	EXCK	I	Clock input for SBSO read out.
4	SQSO	O	Serial output of SUBQ 80 bit.
5	SQCK	I	Clock input for SQSO read out.
6	MUTE	I	Muteing control. (H : MUTE, L : CANCEL)
7	SENS	O	SENS output. Output to the OPERATION MI-COM.
8	XRST	I	System reset. Reset at L.
9	DATA	I	Serial data input from THE OPERATION MI-COM.
10	XLAT	I	Latch input from the OPERATION MI-COM. (Latching of serial data at falling edge of the pulse.)
11	CLOK	I	Serial data transmission clock input from the OPERATION MI-COM.
12, 53	Vss	–	GND
13	SEIN	I	Sense input from SSP.
14	CNIN	I	Track jump number count signal input.
15	DATO	O	Serial data output to SSP.
16	XLTO	O	Serial data latch output to SSP. (Latching at fallingedge of the pulse.)
17	CLKO	O	Serial data transmission clock output to SSP.
18	SLED SW	I	Innermost position ON/OFF detection input of sled motor. (Input A)
19	SPOB	I	Innermost position ON/OFF detection input of sled motor. (Input B)
20	SPOC	I	Innermost position ON/OFF detection input of sled motor. (input C)
21	XLSL	I	X'tal selection input terminal. L when X'tal is 16.9344 MHz. H when 33.8688 MHz.
22	LD ON/OFF	O	Laser diode ON/OFF control.
23	FOK	I	Focus OK input terminal. For SENS output and servo automatic sequencer.
24	MON	–	Not used
25	MDP	O	Servo control for spindle motor.
26	MDS	–	Not used
27	LOCK	–	Not used
28	TEST	–	Regular GND for TEST terminal.
29	FILO	O	Filter output for master PLL. (slave = digital PLL)
30	FILI	I	Filter input for master PLL.
31	PCO	O	Charge pump output for master PLL.
33, 75, 76	AVss1 ~ 3	–	GND
34	CLTV	I	VCO control voltage input for master.
36	RF	I	EFM signal input.
37	BIAS	I	Asymmetry circuir constant current input.
38	ASYI	I	Asymmetry compilasion voltage input.
39	ASYO	O	EFM full swing output. (L = Vss, H = VDD)
40	ASYE	I	L : Asymmetry circuit OFF H : Asymmetry circuit ON.
41	WDCK	–	Not used
42	LRCK	O	D/A interface for 48 bit slot. LR clock f = Fs
43	LRCKI	I	LR clock input to DAC.
44	PCMD	O	Serial data from D/A interface.
45	PCMDI	I	Audio data input to DAC.
46	BCK	O	Bit clock from D/A interface.
47	BCKI	I	Bit clock input to DAC.
48	GTOP	–	Not used
49	XUGF	–	
50	XPCK	–	
51	GFS	–	
52	RFCK	–	
54	C2PO	–	
55	XROF	–	
56	MNT3	–	
57	MNT1	–	
58	MNT0	–	
59	FSTT	–	
60	C4MR	–	
61	DOUT	O	Digital out terminal.

Pin No.	PORT NAME	I/O	FUNCTION
62	EMPH	O	H output when a playback disc is emphasised. L output when no emphasis.
63	EMPHI	I	De-emphasis control input. (H : ON, L : OFF)
64	WFCK	O	WFCK (Write Frame Clock) output.
65	ZEROL	–	Not used
66	ZEROR	–	Not used
67, 79, 80	DTS1 ~ 3	–	GND
69	NLPWM	O	L-ch PWM output. (opposite phase)
70	LPWM	O	L-ch PWM output. (in-phase)
73	XTAI	I	33.8688 MHz X'tal oscillation circuit input.
74	XTAO	O	33.8688 MHz X'tal oscillation circuit output.
77	NRPWM	O	R-ch PWM output. (opposite phase)
78	RPWM	O	R-ch PWM output. (in-phase)

LC7073M (RDS DATA PROCESS)


ERROR CORRECTION JUDGE SELECT INPUT
ERROR CORRECTION JUDGE OUTPUT
ERROR CORRECTION JUDGE OUTPUT
CONTROL INPUT OF BLOCK DATA START SIGNAL
7
13
12
11
ERROR DETECT /CORRECTION
PARALLEL/SERIAL CONVERTOR
15
SERIAL DATA OUTPUT
RDS DEMODULATION DATA INPUT
6
SERIAL/PARALLEL CONVERTOR
SYNCHRONIZING DETECT
16
SERIAL CLOCK OUTPUT
14
START SIGNAL OF SERIAL DATA OUTPUT BLOCK
RDS DEMODULATION CLOCK INPUT
5
10
RDS RECEIVE DATA OUTPUT
OSC
SYSTEM CONTROL
18
1
4
8
CLOCK OUTPUT
CLOCK INPUT
RESET INPUT
CLOCK OUTPUT POLARITY SELECT INPUT FOR SERIAL DATA

M38173M6-354FP (DECK SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	1k BPF	I	1 kHz A/D input for spectrum analyzer.
2	250 BPF	I	250 Hz A/D input for spectrum analyzer.
3	60 BPF	I	60 Hz A/D input for spectrum analyzer.
4	HI BOOST	O	G.EQ control
5	LOW CUT		
6	MID BOOST		
7	HI CUT		
8	LOW BOOST		
9	RDY	O	Ready signal output to the OPERATION MI-COM.
10	CLOCK	I	Clock signal input from the OPERATION MI-COM.
11	DATA OUT	O	Data output to the OPERATION MI-COM.
12	DATA IN	I	Data input from the OPERATION MI-COM.
13	OUTPUT SW	O	DECK muting control & MIC ON/OFF control. (L : mute ON, MIC ON)
14	V.FADE 1	O	Vocal fading control output (2 bits). To be used for selection of vocal fading, multiplex, through or mute.
15	V.FADE 2		
16	KEYCON DATA	O	Data output to the KEY-CON IC.
17	KEYCON CLOCK	O	Clock output to the KEY-CON IC.
18	KEYCON ST	O	Strobe signal output to the KEY-CON IC.
19	INPUT B	O	Input select control (TUNER, CD, TAPE or AUX).
20	INPUT A		
21	MIC ECHO A	O	Selection of MIC, ECHO, 2-CH surround or DOLBY surround mode.
22	MIC ECHO B		
23	MIC ECHO C		
24	KEYCON ON/OFF	O	KEY-CON mode ON/OFF control output (H : KEY-CON on).
25	KARAOKE	I	KARAOKE function ON/OFF control input. (H : ON)
26	MIC ON/OFF	I	Detection of a microphone is connected or not.
27	RESET	I	Reset signal input (L : reset).
28	XCIN	I	Not used.
29	XCOUT	O	
30	XIN	I	X'tal connecting pin.
31	XOUT	O	
32, 74	Vss	–	GND
33	ECHO LEVEL 3	O	ECHO level control output (3 bits, 6 steps).
34	ECHO LEVEL 2		
35	ECHO LEVEL 1		
36	AMP MUTE	O	PRE AMP muting control output (L : mute).
37	POWER ON/OFF	O	Power ON/OFF control output (H : power ON).
38	PACK MUTE	O	POWER AMP muting control output (H : mute).
39	PROTECT	I	Input for detection of PROTECT operation.
40	BOP	I	Blank output pulse input (H : blank).
41	MIC DELAY	O	MIC & DOLBY delay time select output. (L : 30 mS, H : 120 mS).
42	VR UP	O	Main VR control output (UP).
43	VR DOWN	O	Main VR control output (DOWN).
44	S.BASS	O	Super bass ON/OFF control input. (H : ON)
45	CAP1 ON/OFF	O	TAPE-I capstan motor ON/OFF control output (H : ON).
46	CAP2 ON/OFF	O	TAPE-II capstan motor ON/OFF control output (H : ON).
47	PL COM	O	Plunger ON/OFF (common) control output (L : active).
48	TAPE1 PL	O	TAPE-I plunger ON/OFF control output (H : active).
49	TAPE2 PL	O	TAPE-II plunger ON/OFF control output (H : active).
50	CAP2 X1/X2	O	TAPE-II capstan motor speed switching output(H : X1, L : X2).
51	CAP1 X1/X2	O	TAPE-I capstan motor speed switching output (H : X1, L : X2).
52	REC/PB	O	Head REC/PB control output (H : PB).
53	PB PEAK X2	O	X1/X2 PB peaking frequency select control output (L : X1).
54	DOLBY REC/PB	O	DOLBY REC/PB control output (L : PB).
55	TAPE2 120/70	O	TAPE-II PB EQ switching output (H : 120 µs).
56	TAPE1 120/70	O	TAPE-I PB EQ switching output (H : 120 µs).
57	DOLBY ON/OFF	O	DOLBY ON/OFF control output (L : off).
58	TAPE 1/2	O	TAPE-I/II playback switching control output (H : TAPE-I).
59	REC EQ X1/X2	O	REC EQ X1/X2 control output (H : X1).
60	REC MUTE	O	REC mute control output (L : mute).
61	INPUT MUTE	O	REC input signal muting control (L : mute).
62	PB MUTE	O	Playback muting control output (L : mute).
63	SEARCH	O	PRE AMP gain control when AMS function is ON.
64	OSC	O	Erasing OSC ON/OFF control output (H : on).
65	2 R. REC	I	TAPE-II reverse recording inhibit input.
66	2 F. REC	I	TAPE-II forward recording inhibit input.
67	2 PACK SW	I	TAPE-II pack detect input.
68	2 120/70 SW	I	TAPE-II 120 µs/70 µs tape detect input (L : 120 µs).
69	2 PLAY SW	I	TAPE-II head position detect input.(L : PB)
70	1 PACK SW	I	TAPE-I pack detect input.
71	1 120/70 SW	I	TAPE-I 120 µs/70 µs tape detect input (L : 120 µs).
72	1 PLAY SW	I	TAPE-I head position detect input. (L : PB)
73	VCC	–	+5 V.
74	VEE	–	To be grounded.
75	AVss	–	To be grounded.
76	VREF	–	To be connected to +5 V line.
77	2 PULSE	I	TAPE-II reel pulse input.
78	1 PULSE	I	TAPE-I reel pulse input.
79	16k BPF	I	16 kHz A/D input for spectrum analyzer.
80	4k BPF	I	4 kHz A/D input for spectrum analyzer.

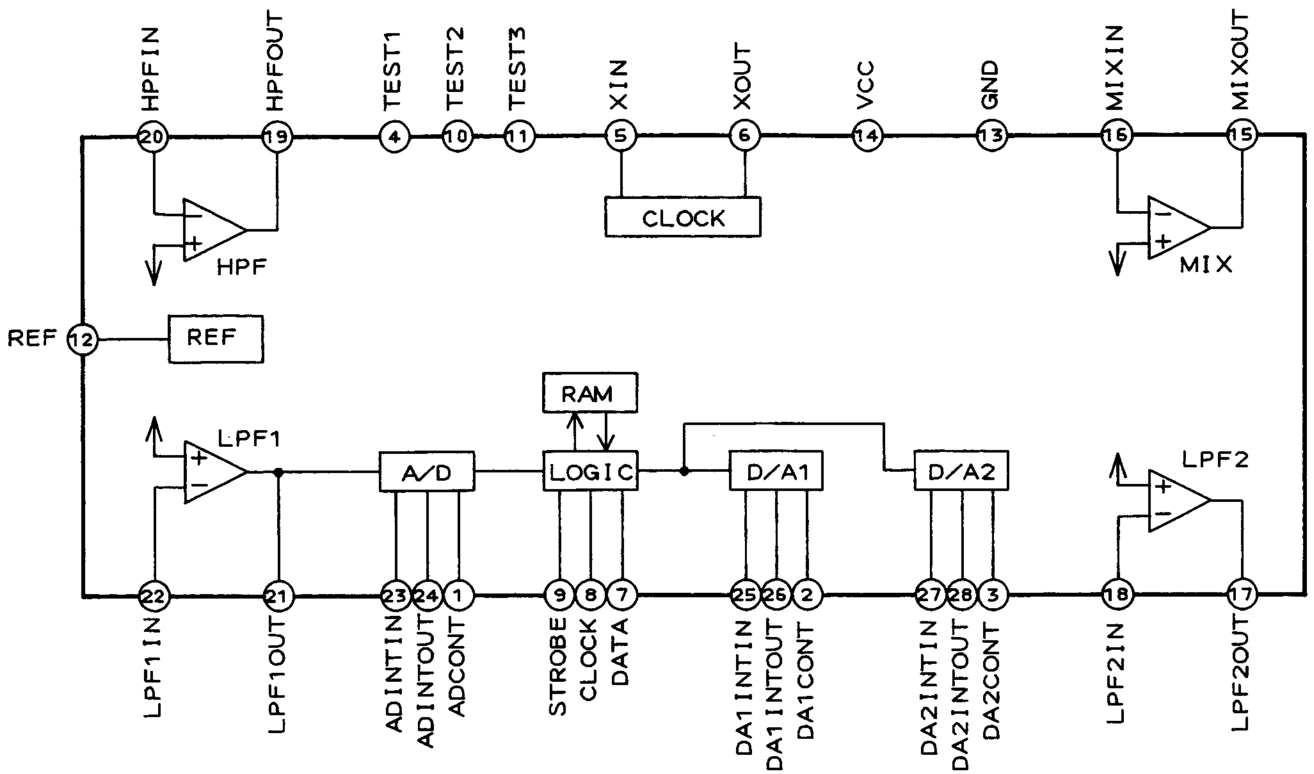
M38184M8-167FP (DECK SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	60 BPF	I	60 Hz A/D input for spectrum analyzer.
2	HI BOOST	O	G.EQ control
3	LOW CUT		
4	MID BOOST		
5	HI CUT		
6	LOW BOOST		
7	RDY	O	Ready signal output to the OPERATION MI-COM.
8	CLOCK	I	Clock signal input from the OPERATION MI-COM.
9	DATA OUT	O	Data output to the OPERATION MI-COM.
10	DATA IN	I	Data input from the OPERATION MI-COM.
11, 19, 95	–	–	Not used
12	FL DATA	O	Data output to the surround FLD driver.
13	FL CLOCK	O	Clock output to the surround FLD driver.
14	FL CE	O	Chip enable output to the surround FLD driver.
15	DOLBY SURROUND ON/OFF	O	DOLBY surround ON/OFF control out (H : ON)
16	DOLBY SURROUND STB	O	DOLBY surround control strobe signal output.
17	DOLBY SURROUND DATA	O	DOLBY surround control data output.
18	DOLBY SURROUND CLOCK	O	DOLBY surround control clock output.
20	KARAOKE	I	KARAOKE function ON/OFF control input. (H : ON)
21	OUTPUT SW	O	DECK muting control & MIC ON/OFF control. (L : mute ON, MIC ON)
22	V.FADE 1	O	Vocal fading control output (2bits). To be used for selection of vocal fading, multiplex, through or mute.
23	V.FADE 2		
24	KEYCON DATA	O	Data output to the key control IC.
25	KEYCON CLOCK	O	Clock output to the key control IC.
26	KEYCON ST	O	Strobe signal output to the key control IC.
27	INPUT B	O	Input select control (TUNER, CD, TAPE or AUX).
28	INPUT A		
29	MIC ECHO A	O	Selection of MIC, ECHO, 2-CH surround or DOLBY surround mode.
30	MIC ECHO B		
31	MIC ECHO C		
32	KEYCON ON/OFF	O	KEY-CON mode ON/OFF control output (H : KEY-CON on)
33	HEADPHON	I	Detection of a headphone is connected or not.
34	MIC ON/OFF	I	Detection of a microphone is connected or not.
35	RESET	I	Reset signal input (L : reset).
36	XCIN	I	Not used.
37	XCOUT	O	
38	XIN	I	X'tal connecting pin.
39	XOUT	O	
40	Vss	–	To be grounded.
41	ECHO LEVEL 3	O	ECHO level control output (3 bits, 6 steps).
42	ECHO LEVEL 2		
43	ECHO LEVEL 1		
44	AMP MUTE	O	PRE AMP muting control output (L : mute).
45	POWER ON/OFF	O	Power ON/OFF control output (H : power ON).
46	PACK MUTE	O	POWER AMP muting control output (H : mute).
47	PROTECT	I	Input for detection of PROTECT operation.
48	BOP	I	Blank output pulse input (H : blank).
49	MIC DELAY	O	MIC & DOLBY delay time select output. (L : 30 mS, H : 120 mS).
50	VR UP	O	Main VR control output (H : UP).
51	VR DOWN	O	Main VR vontrol output (H : DOWN).
52	S.BASS	O	Super bass ON/OFF control input.(H : ON)
53	CAP1 ON/OFF	O	TAPE-I capstan motor ON/OFF control output (H : ON).
54	CAP2 ON/OFF	O	TAPE-II capstan motor ON/OFF control output (H : ON).
55	PL COM	O	Plunger ON/OFF (common) control output (L:active).
56	TAPE1 PL	O	TAPE-I plunger ON/OFF control output (H : active).
57	TAPE2 PL	O	TAPE-II plunger ON/OFF control output (H : active).
58	CAP2 X1/X2	O	TAPE-II capstan motor speed switching output (H : X1, L : X2).
59	CAP1 X1/X2	O	TAPE-I capstan motor speed switching output (H : X1, L : X2).
60	REC/PB	O	Head REC/PB control output (H : PB).
61	PB PEAK X2	O	X1/X2 PB peaking frequency select control output (L : X1).
62	DOLBY REC/PB	O	DOLBY REC/PB control output (L : PB).
63	TAPE2 120/70	O	TAPE-II PB EQ switching output (H : 120 μs).
64	TAPE1 120/70	O	TAPE-I PB EQ switching output (H : 120 μs).
65	DOLBY ON/OFF	O	DOLBY ON/OFF control output (L : OFF).
66	TAPE 1/2	O	TAPE-I/II playback switching control output (H : TAPE-I).
67	REC EQ X1/X2	O	REC EQ X1/X2 control output (H : X1).
68	REC MUTE	O	REC mute control output (L : mute).
69	INPUT MUTE	O	REC input signal muting control (L : mute).
70	PB MUTE	O	Playback muting control output (L : mute).
71	SEARCH	O	PRE AMP gain control when AMS function is ON.
72	OSC	O	Erasing OSC ON/OFF control output (H : ON).
73	1 FWD	O	TAPE-I EJECT motor direction control (forward).
74	1 REV	O	TAPE-I EJECT motor direction control (reverse).
75	2 FWD	O	TAPE-II EJECT motor direction control (forward).
76	2 REV	O	TAPE-II EJECT motor direction control (reverse).
77	2 OPEN	I	TAPE-II cassette holder open position detect input (H : open).
78	2 CLOSE	I	TAPE-II cassette holder close position detect input (H : close).
79	1 OPEN	I	TAPE-I cassette holder open position detect input (H : open).
80	1 CLOSE	I	TAPE-I csssette holder close position detect input (H : close).
81	2 R.REC	I	TAPE-II reverse recording inhibit input.
82	2 F.REC	I	TAPE-II forward recording inhibit input.
83	2 PACK SW	I	TAPE-II pack detect input. (H : no pack)
84	2 120/70 SW	I	TAPE-II 120 μs/70 μs tape detect input (L : 120 μs).
85	2 PLAY SW	I	TAPE-II head position detect input. (L : PB)
86	1 PACK SW	I	TAPE-I pack detect input. (H : no pack)
87	1 120/70 SW	I	TAPE-I 120 μs/70 μs tape detect input (L : 120 μs).
88	1 PLAY SW	I	TAPE-I head position detect input. (L : PB)
89	VEE	–	To be grounded.
90	1 PULSE	I	TAPE-I reel pulse input.
91	VCC	–	+5 V.
92	2 PULSE	I	TAPE-II reel pulse input.
93	AVss	–	To be grounded.
94	VREF	–	No connection.
96	SURROUND LEVEL	I	Surround level detect input.
97	16k BPF	I	16 kHz A/D input for spectrum analyzer.
98	4k BPF	I	4 kHz A/D input for spectrum analyzer.
99	1k BPF	I	1 kHz A/D input for spectrum analyzer.
100	250 BPF	I	250 Hz A/D input for spectrum analyzer.

M38184M8-134FP (OPERATION MI-COM)

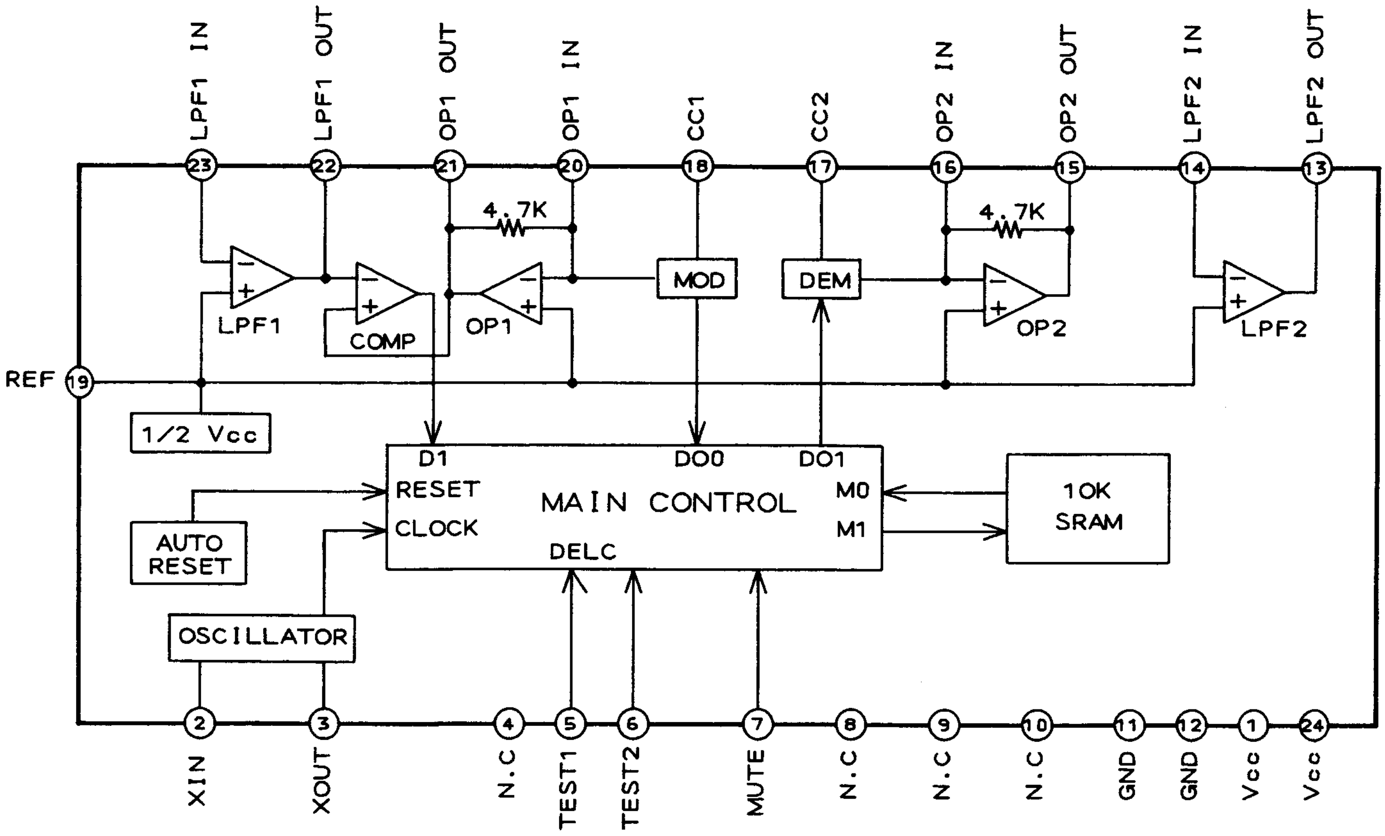
Pin No.	PORT NAME	I/O	FUNCTION
1	STEREO	I	A/D input for the STEREO indicator.
2	TUNED	I	A/D input for the TUNED indicator.
3	CD FLD CE	O	Chip enable output to the CD-FLD driving IC.
4	CD FLD CLK	O	Clock output to the CD-FLD driving IC.
5	CD FLD OUT	O	Serial data output to the CD-FLD driving IC.
6	CD FLD IN	I	Serial data input from the CD-FLD driving IC.
7	DECK REDY	I	Ready signal input from the DECK MI-COM.
8	DECK CLK	O	Clock signal output to the DECK MI-COM.
9	DECK OUT	O	Serial data output to the DECK MI-COM.
10	DECK IN	I	Serial data input from the DECK MI-COM.
11	B RESET	O	Reset output to the DECK MI-COM.
12	LED DATA1	O	Data output for the operation LEDs.
13	LED DATA2	O	Data output for the operation LEDs.
14	LED CLOCK	O	Clock output for the operation LEDs.
15	PLL CE	O	PLL chip enable output to the tuner unit.
16	PLL OUT	O	PLL control data output to the tuner unit.
17	PLL CLOCK	O	Clock signal output to the tuner unit.
18	PLL IN	I	PLL control data input from the tuner unit.
19	TUNER MUTE	O	Tuner muting control output. (H : MUTE ON)
20	RDS START	I	Start signal input for RDS control.
21	RDS RESET	O	Reset output to RDS error correction IC.
22	RDS DATA	I	Data input for RDS control.
23	MECHA CNT2	O	CD's loading motor & table motor control outputs.
24	MECHA CNT1		
25	MECHA CNT3		
26	CD POWER	O	Power supply ON/OFF control for CD scetion (H : CD on).
27	CDG RESET	O	CD-G reset output (L : reset).
28	32KHz	O	Output for timer adjust (Output only when the timer adjust test mode).
29	SQSO	I	Serial data input from the CD MI-COM.
30	PHOT IN	I	Input from the TRAY position detect photo sensor.
31	MUTE	O	CD's audio out muting control (L : mute).
32	SCOR	I	Sub code detect input from the CD MI-COM.
33	RDS CLK	I	Clock signal input for RDS control.
34	REMOCON	I	Remote control signal input from the detector.
35	RESET	I	Reset switch input.
36	XCIN	I	32.768 kHz X-tal input for clock.
37	XCOUT	O	Output to the 32.768 kHz X-tal.
38	XIN	I	6.0 MHz X-tal input.
39	XOUT	O	Output to the 6.0 MHz X-tal.
40	GND	–	Ground pin.
41	LED STROBE	O	Storobe signal output for the operation LEDs.
42	FLD ON/OFF	O	FLD's filament ON/OFF control (L : ON)
43	SENS	I	SENS input from the CD MI-COM.
44	SQCK	O	SQSO clock output to the CD MI-COM.
45	XRST	O	Reset output to the CD MI-COM.
46	DATA	O	Serial data output to the CD MI-COM.
47	XLAT	O	Latch output for the CD MI-COM.
48	CLK	O	Serial clock output to the CD MI-COM.
49	ROM DATA	I/O	Data in/out pin from/to the EEP-ROM IC.
50	ROM CLK	O	Clock output to the EEP-ROM IC.
51	MECHA CNT4	O	CD's loading motor & table motor speed control output.
52	RDS ON/OFF	O	Power supply on/off control for the RDS circuit (FM band H).
53	LED ON/OFF	O	Power supply ON/OFF control for the operation LEDs.
54-58	–	–	Not used.
59 ~ 72	DIG 14 ~ 1	O	SYSTEM-FLD's grid drive outputs.
73 ~ 88	SEG 16 ~ 1	O	SYSTEM-FLD's segment drive outputs.
89	VEE	–	Negative power supply input for FLD blanking.
90	PB1	–	Not used.
91	Vcc	–	+5 V power supply input.
92	POWER DOWN	I	Back up voltage detection. (L : back up OK)
93	GND	–	Ground pin of this IC.
94	VREF	–	Reference voltage input (connect to + 5 V line).
95	VERSION	I	A/D input for version setting of the unit.
96 ~ 99	KEY 4 ~ 1	I	A/D input from the operation switches.
100	MODE SW	I	A/D input from the CD's tray switches.

M65840FP (DIGITAL KEY-CONTROL)



PIN No.	PORT NAME	I/O	FUNCTION
1	ADCONT	–	Fixes the optimum time constant of ADM system A/D conversion.
2	DA1CONT	–	Fixes the optimum time constant of ADM system D/A1 conversion.
3	DA2CONT	–	Fixes the optimum time constant of ADM system D/A2 conversion.
4	TEST 1		Test pin (L : normal mode, H : test mode).
5	X IN	I	X'tal OSC input (16 MHz).
6	X OUT	O	X'TAL OSC output (16 MHz).
7	DATA	I	Serial bus data input.
8	CLOCK	I	Serial bus clock input.
9	STROBE	I	Serial bus strobe input.
10, 11	TEST 2,3	–	Not used.
12	REF	O	Reference voltage output (1/2 Vcc output). A filtering capacitor should be connected to this pin.
13	GND	–	Ground pin of this IC.
14	Vcc	–	+5 V power supply.
15	MIXOUT	O	Mixes the key controlled low frequency range signal with the through high frequency range signal.
16	MIXIN	I	
17	LPF2OUT	O	Post filter, after D/A conversion for key control.
18	LPF2IN	I	
19	HPFOUT	O	High pass filter for high through.
20	HPFIN	I	
21	LPF1OUT	O	Pre filter, before A/D conversion for key control.
22	LPF1IN	I	
23	ADINTIN	I	Constructs the integrator for A/D conversion from the external capacitor.
24	ADINTOUT	O	
25	DA1INTIN	I	Constructs the integrator for D/A1 conversion from the external capacitor.
26	DA1INTOUT	O	
27	DA2INTIN	I	Constructs the integrator for D/A2 conversion from the external capacitor.
28	DA2INTOUT	O	

M65843P (DIGITAL ECHO)


LPF1 IN
LPF1 OUT
OP1 OUT
OP1 IN
CC1
CC2
OP2 IN
OP2 OUT
LPF2 IN
LPF2 OUT
23
22
21
20
18
17
16
15
14
13
4.7K
4.7K
LPF1
COMP
OP1
MOD
DEM
OP2
LPF2
REF
19
1/2 Vcc
D1
DO0
DO1
RESET
CLOCK
MAIN CONTROL
M0
M1
DELC
10K SRAM
AUTO RESET
OSCILLATOR
2
3
4
5
6
7
8
9
10
11
12
1
24
XIN
XOUT
N.C
TEST1
TEST2
MUTE
N.C
N.C
N.C
GND
GND
Vcc
Vcc

PIN No.	PORT NAME	I/O	FUNCTION
1	VDD	–	+5 V power supply for digital section.
2	X IN	I	X'tal OSC input.
3	X OUT	–	X'tal OSC output.
4	NC	–	No connection.
5	TEST 1	I	Test pin (fixed H in the normal condition).
6	TEST 2	I	Test pin (fixed L in the normal condition).
7	MUTE	I	Mute control input (L : mute).
8 ~ 10	NC	–	No connection.
11	D.GND	–	Digital ground.
12	A.GND	–	Analog ground.
13	LPF2 OUT	O	Constructs the output side low pass filter from the externally connected capacitor & resistor.
14	LPF2 IN	I	
15	OP2 OUT	O	Constructs the integrator for demodulation from the externally connected capacitor & resistor.
16	OP2 IN	I	
17	CC2	–	Current control for demodulator ADM control.
18	CC1	–	Current control for modulator ADM control.
19	REF	–	Analog reference voltage (1/2 Vcc).
20	OP1 IN	I	Constructs the integrator for modulation from the externally connected capacitor & resistor.
21	OP1 OUT	O	
22	LPF1 OUT	O	Constructs the input side low pass filter from the externally connected capacitor & resistor.
23	LPF1 IN	I	
24	Vcc	–	+5 V analog power supply.

SAA6579T (RDS DEMODULATOR)

PIN No	PORT NAME	I/O	FUNCTION
1	QUAL	O	QUALITY INDICATION OUTPUT
2	RDDA	O	RDS DATA OUTPUT
3	VREF	—	REFERENCE VOLTAGE OUTPUT
4	MUX	I	MULTIPLEX SIGNAL INPUT
5	VDD	—	+5 V SUPPLY VOLTAGE FOR ANALOG PART
6	VSS	—	GND FOR ANALOG PART
7	CIN	I	SUBCARRIER INPUT TO COMPARATOR
8	SCOUT	O	SUBCARRIER OUTPUT OF RECONSTRUCTION FILTER
9	MODE	I	OSCILLATOR MODE / TEST CONTROL INPUT
10	TEST	I	TEST ENABLE INPUT
11	VSS	—	GND FOR DIGITAL PART
12	VDD	—	+5 V SUPPLY VOLTAGE FOR DIGITAL PART
13	OSC1	I	OSCILLATOR INPUT
14	OSC0	O	OSCILLATOR OUTPUT
15	T57	O	57 kHz CLOCK SIGNAL OUTPUT
16	RDCL	O	RDS CLOCK OUTPUT

ABBREVIATIONS (CASSETTE)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Turning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPstan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETector	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQualizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Foward	SIG	SIGnal
FLD	FLuoresent Display	SPECT	SPECTrum
FREQ	FREQuency	STD	STanDard
FWD	ForWarD	SW	SWitch
GND	GrouND	SYSCON	SYStem CONtrol
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLume
L	Low	VOLT	VOLtage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitining Diode	X'TAL	crysTAL
MEMO	MEMOry	X1	Normal speed
MICOM	MIcroCOMputer	X2	Dubble speed

ABBREVIATIONS (COMPACT DISC)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
A-D	Analog to Digital (Convertor)	MB	Mega Bits
ADC	Analog to Digital (Convertor)	MDA	Mortor Drive Amplifier
BCD	Binary Code Decimal	MFM	Modified Frequency Modulation
BPI	Bits per Inch	MM	Mono-stable Multivibrator
CD	Compact Disc	MOD2	Modulo 2 (Addition)
CIRC	Cross Interleaving & Reed Solomon Coding	MP	Microprocessor
CLV	Constant Linear Velocity	MSB	Most Significant Bit
CP	Clock Pulses	NA	Numerical Aperture
CRCC	Cyclic Redundancy Check Codes	NRZ	Non Return to Zero
D Level	Decision Level	NRZ-1	Non Return to Zero Inverted
D-A	Digital to Analog (Convertor)	P	Parity Data
DAC	Digital to Analog (Convertor)	PAM	Pulse Amplitude Modulation
DAD	Digital Audio Disc	PCM	Pulse Code Modulation
DEM	Dynamic Element Matching	PD	Phase Detector
DPD	Differential Phase Detection	PE	Phase Encode
DSV	Digital Sum Value	PLL	Phase Locked Loop
EFM	Eight to fourteen Modulation	PNM	Pulse Number Modulation
EX-OR	EXclusive OR	PPM	Pulse Phase Modulation
FCI	Flux Changes per Inch	PWM	Pulse Width Modulation
FIR	Finite Impulse Response	Q	Parity Data
FP	Front Pulse	R, R_1, R_2, etc.	Data for Right Channel
FPG	Front Pulse Gate	RAM	Random Access Memory
f	Frequency of Sampling	RPG	Rear Pulse Gate
GF	Galois Field	S & H	Sample & Hold
H & V (Parity)	Horizonal & Vertical	S/N	Signal to Noise Ratio
IIR	Infinite Impulse Response	SSG	Standard Signal Generator
kb	Kilo Bits	SYSCON	SYStem CONtrol
L, L_1, L_2, etc.	Data for Left Channel		
LPF	Low Pass Filter		
LSB	Least Significant Bit		

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